

SINCE 1947



CATALOG WS-88

FAIR RADIO SALES CO.  
WORLD'S FINEST

# ELECTRONIC SURPLUS

GOVERNMENT AND COMMERCIAL

MANY ITEMS AT SPECIAL SALE PRICES!

## VIDEO DISC PLAYERS



RCA VIDEO DISC PLAYERS with CED (capacitance) pickups; plays video discs like record player plays records. These are the "techno-

logical losers" to VHS video because they "play" only--no recording--and they must be "flipped" to Side 2 for complete play. However, LOW PRICE may outweigh disadvantages for those who want a cheap video player. Some disc movies available (see below). Units removed from service and sold as "used-operational, but adjustments may be required"; approx 6x17x16, 24 lbs sh.

#SJT-090, Autoload, Fast-Forward, Pause; \$40. #SGT-100W, FDR-REV for "Rapid Access" & "Visual Search"; Pause, manual loading. \$44.50

\*\*\*\*\*  
AS-IS, NON-OPERATING VD PLAYERS for parts or for experiment. Each have video boards with house-numbered IC's including MPU, stepper and turntable motors, DC supply, xtals, etc. #NO-SJT-090, more IC's, 22 & 10 V supply, \$20. #NO-SGT-100, 22 & 7.7 V power supply, \$22.50

\*\*\*\*\*  
We have some "used" movie video discs as recent as 1985. Because they are used, discs may have occasional "blip-skips" in the video. If the customer finds a disc's condition intolerable, customer must notify us within 10 days of intent to return for exchange. WRITE for list or call to check for title availability. Quantities limited! 2 lbs sh. Used, \$10 ea; 3 for \$25. \* TWO-DISC MOVIES, \$15.00 ea; 2 for \$25.00 \*

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## UHF TUNER

UHF VARIATOR TUNER, covers 450-900 MHz; use for TV repair or modify for scanners, etc. Approx 47 MHz IF output; 300 ohm ANT input, 50 ohm OSC out. Requires +15 (B+), 3-10 (AGC) and 0-30 VDC (tune). 3.5x3.5x1, 1 lb. GE #EP85X66, unused, \$5.95



## VIDEO ZOOM LENS

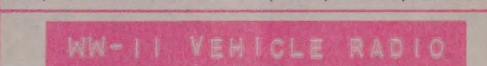
MAMIYA SEKOR VIDEO CAMERA ZOOM LENS, manual adjust 14.5 to 52 mm f1:1.8 plus MACRO position. Focuses from 4 feet to infinity. Good experimenter item. On 2.3x3.3 bracket; 4.3" long, 2 lbs sh. #VZL-1452, unused, \$22.95

\*\*\*\*\*  
VARIABLE DENSITY FILTER for binocular lens; coupled density control on both lenses. Distance between lens centers varies 1.9"-3.1"; each threads onto 1.3" dia barrel. Made for U.S.N. #VD-FIL, unused, \$4.95



## 12 VDC MINI-PUMP

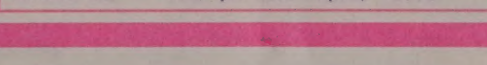
12 VDC IMMERSION PUMP, probably from AUT/RV market; 3/8" dia outlet moves about 1 gallon/minute. Operates on higher voltages with increased flow rate for short periods: @ 24 VDC, 1.5 gal/min; @ 35 VDC, 2 gal/min. For non-flammable fluids only because fluid flows thru motor acting as lubricant. Use in fountains, solar water or science fair projects; 4"L X 1.5" dia, 2 lbs. #HAR-12V-IMP, NEW, \$5.95; 2/\$10.



## WW-II VEHICLE RADIO

BC-659 TRANSCEIVER, late WW-2 vehicular radio; transmits and receives on two preset channels over 27.0 to 38.9 MHz FM. Transmitter output: 1.3 W. Set has tuning meter speaker, and tubes 5/1LN5, 2/3B7, 4/3D6, 1LH4, 1LC6, and 1R4. Uses FT-241 crystal-type (not included) and requires 1.5 VDC 0.94 amp, 90 VDC 48 ma, 7.5 VDC 300 a, and 150 VDC 50 ma. Size: 12x16.5 x21.5, 40 lbs sh. Used-not checked, \$65.00 MANUAL for BC-659 (SCR-609-610), \$10.00

PP-114/VRC-3 VIBRATOR POWER SUPPLY, provides voltages for BC-1000 WW-2 backpack transceiver in vehicular use from 6, 12, or 24 VDC input Clamps directly to BC-1000; with 9' DC cable; 5.5x12x9.5, 35 lbs. Used, \$65. MANUAL for PP-114, partial repro, \$8.50



## TEK 453 SCOPE

EKTRONIX 453 PORTABLE SCOPE, solid-state DC to 50 MHz dual trace unit with 6 x 10 division CRT. Sweep 0.1 usec to 5 sec in 24 calibrated steps in 1-2-5 sequence (Channel A) or to 0.5 sec (B). Sweep delay 0.2 usec-50 sec. Vertical sensitivity 5 mv to 10 V/div in 11 steps. Input impedance 1 megohm shunted by 20 pf. Horizontal deflection 0.1 usec to 5 sec/div (A), to 0.5 usec (B). Amplitude and Time Calibrator 1 V, 0.1V and 5 ma at external jacks. Also Automatic or Normal Trigger, X10 Magnifier and Beam Finder. Requires 90-136/180-272 V 48-62 Hz. With partial reproduction of book but Less front cover. 7.1x12.5x20.5, 35 lbs. Used-repairable, \$350. Checked, \$475.



## LAMBDA SUPPLY

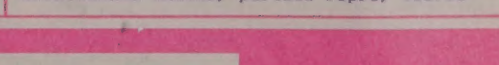
LAMBDA REGULATED DC SWITCHING SUPPLY, output 24 VDC 6.5 amps @ 60 C from 95-132 VAC 47-440 Hz input. Regulation +/-0.1%; output adjustable +/-5%. Rugged enclosed modular design; with book. 4.9x2.4x8.5, 5 lbs. #LRS-53-24, NEW, \$39.95

\*\*\*\*\*  
EXELON DC REGULATED SUPPLY, 5 VDC 3 amp and 12 VDC 0.1 amp output from 115/230 VAC 47-63 Hz input. This is not switching-type. L-mount; 5x 5.3x2.8, 4 lbs. #PS-1545, unused, \$9.95



## 400 W AM TRANSMITTER

T-368/URT TRANSMITTER, 1.5 to 20 MHz @ 450 watts CW, 400 watts AM. Has master oscillator, frequency multiplier, exciter with 6000 tube, and final power amp. 4-400A tube in P-A and two 4-125A's in the modulator; 1500 pf and 300 pf 10 KV vacuum variable capacitors for P-A tuning. Input levels: 3-5 volts FSK, 30 V max ext-excitation. Input imped: 56 ohms FSK, 1000 ohms external. Requires 115 VAC 50-60 Hz 1570 W (CW), 2200 W (AM). 41.5x32x31, 650 lbs net; 800 lb sh. Used-good condition but not checked, \$595. OPERATOR'S MANUAL, \$7.50 MAINTENANCE MANUAL, partial repro, \$15.00



ORDERING  
INFORMATION  
SEE PAGE 2

MINIMUM  
ORDER \$5.00

# Fair Radio Sales Co.

P.O. Box 1105 - - 1016 E. Eureka St.

Lima, Ohio 45802

419-223-2196/227-6573

24 Hr. FAX 419-227-1313

CATALOG  
INFORMATION

This IS the only  
catalog we will  
issue this year.  
A supplement will  
be sent in the Fall.



# FAIR RADIO SALES CO., INC.

1016 E. EUREKA, BOX 1105, LIMA, OHIO 45802  
TELEPHONE: AREA CODE 419 227-6573

## MODUTEC

MODUTEC METERS, 3"Wx2.25"H  
#MOD 25-0-25 VDC, \$5.95  
#MOD 10-0-10 amp DC, \$6.95  
MATCHED SET OF ABOVE, \$11.

ANTIQUE 0-10 A  
DC TEST METER  
with mirrored  
3" scale and  
terminal posts;  
Westinghouse  
PX-14. 5.3x4.3  
x1.5, 4 lbs sh.  
Unused, \$18.95



**47-84** METER ASSORTMENT,  
five U.S. mfg meters  
2 1/2"-3 1/2"-up;  
mixed odd scales, FS-100 ua  
and up--no choice \$10/ea

**PRESSURE METER**  
0-30-60 in in-  
crements of 10;  
electrical type  
as used in mil-  
livoiles. 2 1/2" dia  
O.D. green rim; #6620-514  
-4662, unused, \$4.50 ea  
OIL PRESSURE, 0-50 incre-  
ments of 2; 2.5" rd, off-  
white face. #4250 NEW \$4.



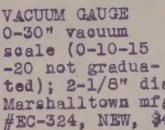
**ROENTGENS**  
PER HOUR METER  
50 MICROAMPERE  
D.C. FULL SCALE  
3 1/2" RUGGEDIZED  
REMOVABLE  
PLASTIC LENSE,  
BLACK FACE.  
Top SCALE 0-500, LOWER 0-10  
#300-10764 UNUSED \$4.95



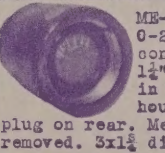
**BALLENINE**  
V.T.V.M.  
METER  
ONLY  
AC VOLTS  
1-10  
DECIBELS  
0-20  
WESTON 643  
4 1/2" OR EQ.  
MFG. PT. NO. 205007 NEW  
STK#6625-557-0899 \$8.95



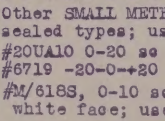
**VACUUM GAUGE**  
0-30" vacuum  
scale (0-10-15  
-20 not gradu-  
ated); 2-1/8" dia  
Marshalltown mfg  
#EC-324, NEW, \$4.50



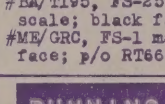
**ME-68/PRC-14**  
0-200 UA meter  
consists of  
1 1/2" dia meter  
in rubberized  
housing w/U-77  
plug on rear. Meter easily  
removed. 3x1 1/2 dia; NEW \$5.



Other SMALL METERS, 1 1/2" sq  
sealed types; used, \$6 ea:  
#20UA10 0-20 aa FS-200 ua,  
#6719 -20-0-+20 aa FS-1 ma.  
#M/6188, 0-10 scale FS-2 MA  
white face; used.  
#BA/T195, FS-25 ma, 0-500  
scale; black face, used.  
#ME/GRO, FS-1 ma black  
face; p/o RT66-7-8, used.



**TV-2 REPLACEMENT**  
METER, 0-250  
SCREEN VOLTS,  
FS-1 MA, 2 1/2" RD.  
SEALED. NEW \$5.95

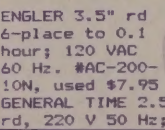


## DECIBELS

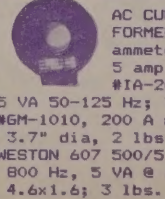
-20-0 and -15-0-+5 DB 3.5"  
dia blk face; FS=100 ua, \$6  
-12-0-8, DB 100 ua FS 3 1/2" RD  
BLK. RUGG. Wac4586 N \$7.95  
-15-0-+6 DB, FS=1 ma; 0-1  
MW/600 . 2.5" rd sealed \$6.  
-6-0-+3 DB, FS=200 ua 2.5"  
rd sealed; used, \$4.95  
OTHER VALUES IN STOCK, WRITE  
POWER SET +6 to 0 to-3  
2 1/2" RD. FS-200 UA, WAGLINE  
1496/400 RUGG/SEAL U \$3.95

## RUNNING TIME

**ENGLER 3.5" rd**  
6-plate to 0.1  
hour; 120 VAC  
60 Hz. #AC-200-  
10N, used \$7.95  
GENERAL TIME 2.5"  
rd, 220 V 50 Hz; unused \$8.



**AC CURRENT TRANS-**  
FORMERS for AC  
ammeters with FS=  
5 amp movements:  
#IA-20053, 200 A  
5 VA 50-125 Hz; 3.7" d, \$8.  
#GM-1010, 200 A rated 600 V  
3.7" dia, 2 lbs sh. \$8.95  
WESTON 607 500/5 ratio, 25-  
800 Hz, 5 VA @ 60 Hz; 4.6x  
4.6x1.6; 3 lbs. NEW, \$20.



STORE HOURS  
9 A.M. to 5:30 P.M.  
MONDAY THRU FRIDAY  
9 A.M. TO 1 P.M. SATURDAY

## TERMS

PRICES NET, F.O.B. LIMA, OHIO  
SEND MONEY ORDER, CER-  
TIFIED CHECK, VISA, or  
MASTERCARD with PURCHASE  
ORDER for IMMEDIATE SER-  
VICE.

We reserve the right to hold an  
order accompanied by personal  
or company check until after  
check clears the banks.

MINIMUM ORDER \$5.00  
PLUS SHIPPING CHARGES

Include sufficient money for  
shipping charges. (UNUSED)  
PAYMENTS RETURNED AT  
ONCE.) Otherwise we will send  
shipping charges collect.

C.O.D. ORDERS, SEND 50% of  
PURCHASE with ORDER. CASH  
BALANCE will be COLLECTED  
UPON DELIVERY.

When writing for information  
PLEASE state what specific  
information you desire.

## DESCRIPTIONS

ALL MATERIAL OFFERED IN  
THIS CATALOG IS IN "USED-  
COMPLETE" CONDITION, UN-  
LESS QUALIFIED AND/OR  
NOTED AS "RECONDITIONED,"  
"UNUSED," or "NEW."

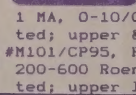
MERCHANDISE IS NOT OPER-  
ATIONALLY CHECKED UNLESS  
SPECIFIED AS "CHECKED."  
EQUIPMENT DESCRIBED AS  
"REPAIRABLE"--MEANING "A-  
BLE TO BE REPAIRED"--IS  
ELECTRO-MECHANICALLY COM-  
PLETE, BUT REQUIRES SOME  
TROUBLESHOOTING BY THE  
CUSTOMER.

## AC VOLTMETERS

FS=150 VAC, no scale; red  
line 120 VAC, 3.5" rd, \$8.  
0-8 VAC, 3 1/2" rd; various  
manufacturers, used \$6.95  
0-10 VAC 2 1/2" rd. \$4.95  
3 1/2" rd or sq \$5.95 var.mfg.  
0-30 VAC 400 Hz 3 1/2" rd;  
Weston 476, unused, \$5.95  
30-150 VAC 60 Hz, various  
mfg: 2 1/2" rd., used, \$6.95

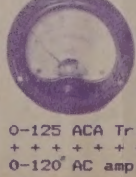
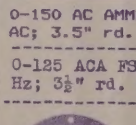


**SIMPSON 4.6"W**  
x4.1"H LIMIT-  
SET METERS re-  
moved f/equip-  
ment, \$9.95 ea  
#SSI-6413, FS=  
1 MA, 0-10/0-30 VDC indica-  
ted; upper & lower limits.  
#M101/CP95, FS=100 UA, 0-  
200-600 Roentgens indica-  
ted; upper limit set only.



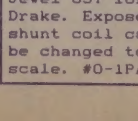
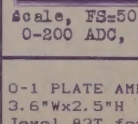
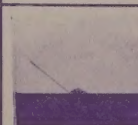
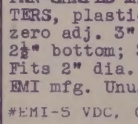
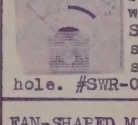
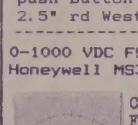
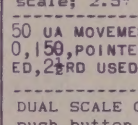
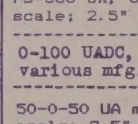
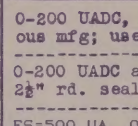
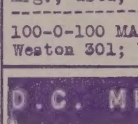
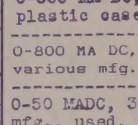
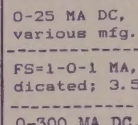
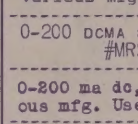
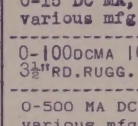
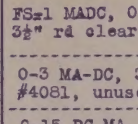
## AC AMMETERS

0-150 AC AMMETER, FS=5 amp  
AC; 3.5" rd. Unused, \$9.95  
0-125 ACA FS=5 A for 400  
Hz; 3 1/2" rd. Hickok \$9.95  
3.5" ROUND AC  
AMMETERS, full  
scale=indicated  
scale. U.S.  
mfg. UNUSED:  
0-75 ACA, #12  
0-125 ACA Triplett 331, \$14  
+ + + + +  
0-120 AC amp, FS=3 ACA, \$8.

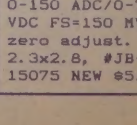
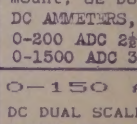
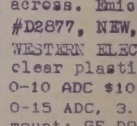
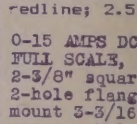
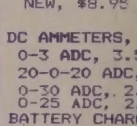
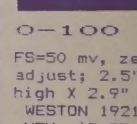
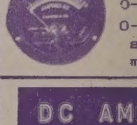
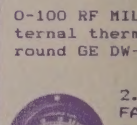
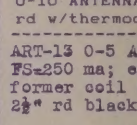
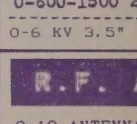
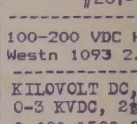
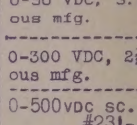
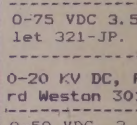
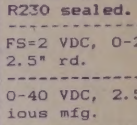
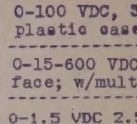


## D.C. MILLIAMPS. D.C. VOLTMETERS

FS=1 MADC, 0-1.0-50 scale,  
3 1/2" rd clear case; Used \$5.  
0-3 MA-DC, 3 1/2" rd. sealed.  
#4081, unused, \$6.95  
0-15 DC MA, 3 1/2" rd sealed;  
various mfg. Used, \$5.95  
0-100DCMA 100MA. MOVE.  
3 1/2"RD.RUGG. #4265 N \$6.95  
0-500 MA DC, 3.5" round;  
various mfg. Used, \$7.95  
0-200 DCMA SC. 2 1/2" RD, USED  
#MR25200DCMA \$3.95  
0-200 ma dc, 3 1/2" rd, vari-  
ous mfg. Used, \$5.95  
0-25 MA DC, 2.5" round,  
various mfg., Used, \$5.95  
FS=1-0-1 MA, 100-0-100 in-  
dicated; 3.5" rd. NEW \$6.95  
0-300 MA DC, 3 1/2" rd, clear  
plastic case. Used \$5.95  
0-800 MA DC, 3.5" round;  
various mfg. Unused, \$6.95  
0-50 MADC, 3 1/2" rd., various  
mfg., used, \$6.95  
100-0-100 MA DC, 3 1/2" rd  
Weston 301; Used, \$5.95

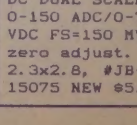
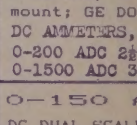
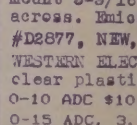
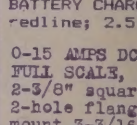
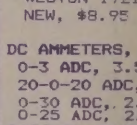
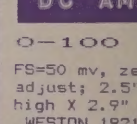
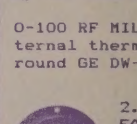
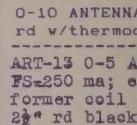


0-100 VDC, 3 1/2" rd clear  
plastic case; used, \$5.95  
0-15-600 VDC, 2 1/2" rd black  
face; w/mult. code-Used \$6.  
0-1.5 VDC 2.5" round; DeJur  
R230 sealed. Unused, \$5.95  
FS=2 VDC, 0-20-80 MA scale;  
2.5" rd. Used, \$4.95  
0-40 VDC, 2.5" square; vari-  
ous mfg. Unused, \$6.95  
0-75 VDC 3.5" round, Trip-  
let 321-JP. Unused, \$7.95  
0-20 KV DC, FS=1 ma; 3.5"  
rd Weston 301. Unused \$6.95  
0-50 VDC, 3.5" round; vari-  
ous mfg. Unused, \$7.95  
0-300 VDC, 2 1/2" round; vari-  
ous mfg. Unused \$5.95  
0-500VDC SC. 3" sq.  
#231-1624 Used \$5.95  
100-200 VDC Hi-Lo range set  
Westn 1093 2.5" rd. Used \$8.  
KILOVOLT DC, FS=1 ma:  
0-3 KVDC, 2 1/2" rd new \$5.95  
0-600-1500 2 1/2" rd used \$6.  
0-6 KV 3.5" rd, unused, \$7.



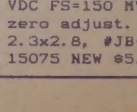
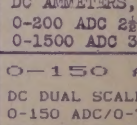
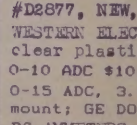
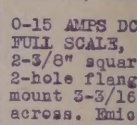
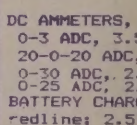
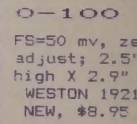
## R.F. AMMETERS

0-10 ANTENNA CURRENT, 2.5"  
rd w/thermocouple, \$8.95  
ART-13 0-5 ANTENNA CURRENT,  
FS=250 ma; external trans-  
former coil not available;  
2 1/2" rd black face. Used \$5.  
0-100 RF MILLIAMPS with ex-  
ternal thermocouple; 2.5"  
round GE DW-52. Unused, \$8.  
2.5" ROUND BLACK  
FACE RF AMMETERS:  
0-3 RF A, \$8.95  
0-8 RF A expanded  
scale w/6 RF A  
midpoint, \$10.95



## DC AMMETERS

0-100 AMPS DC  
FS=50 mv, zero  
adjust; 2.5"  
high X 2.9" W.  
WESTON 1921,  
NEW, \$8.95  
DC AMMETERS, FS=indicated:  
0-3 ADC, 3.5" rd NEW \$7.95  
20-0-20 ADC, 3.5" rd, \$10.  
0-30 ADC, 2.5" rd, NEW \$9.  
0-25 ADC; 2.5" rd, NEW, \$8.  
BATTERY CHARGE FS=10 A, 6 A  
redline; 2.5" rd. Unused \$4  
0-15 AMPS DC  
FULL SCALE,  
2-3/8" square;  
2-hole flange  
mount 3-3/16"  
across. Emco  
#D2877, NEW, \$6.95 \$4.95  
WESTERN ELECTRIC 3 1/2" round  
clear plastic case; used:  
0-10 ADC \$10. 0-15 ADC \$10.  
0-15 ADC, 3.5" rd surface  
mount; GE DO-40, new, \$8.95  
DC AMMETERS, FS=50 mv:  
0-200 ADC 2 1/2" rd NEW \$6.95  
0-1500 ADC 3 1/2" rd used \$7.  
0-150 A/O-75 V  
DC DUAL SCALE,  
0-150 ADC/0-75  
VDC FS=150 MV;  
zero adjust.  
2.3x2.8, #JB-  
15075 NEW \$5.95



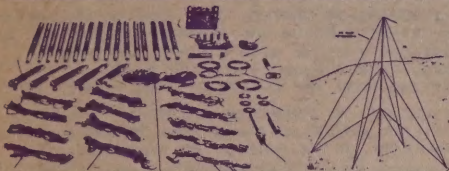


## ME-77 VOLT-OHMMETER



ME-77/URM-105C VOLT-OHM-METER, handy portable meter in ruggedized plastic case has 0-10-100-100 VDC (20K $\Omega$ /V) and VAC (1K $\Omega$ /V) ranges; resistance 0-2K-20K-200K-2M-20M ohms. Response 30 Hz-10 KHz; has 3.5" dia FS-50 microammeter. Possible measurements to 100 amps DC using MX-1471 shunt and to 50 KV DC using MX-2005 multiplier (neither available). Requires two AA batteries (not included) for X1-X10-X100 ohms scales; 22.5 VDC battery (not available) for X1K-X10K ohm scales. With test leads and alligator clips; 6.6x4x3.3, 3 lbs sh. Unused, \$22.95

## 40 FT ALUMINUM MAST SET



AB-86/GRA-4 ANTENNA MAST GROUP, portable set forms 40 foot mast when the sixteen AB-85 36" Lx1.6" dia mast sections are stacked. Also includes 4 each guy ropes MX-381 (40'), MX-382 (31'), MX-383 (50'); 5 ea guy stakes and MX-378 guy rings; plus 1 ea MX-384 insulator base, AB-154 swivel mast base, MX-516 140' halyard, CP-12 counterpoise, HM-1 hammer, W-128 wire, and MX-857 adapter which allows additional 15 ft of height by use of MS-116-117-118 mast sections (not supplied). Set is contained in MX-1116 frame. 85 lbs sh (UPS in 2 pkgs). Used-excellent, \$125.00

## DOLLAR DAZE

PLEASE ORDER BY NUMBER. Unit prices only as indicated. Look for more DOLLAR DAZE throughout this catalog.

**45-85** SAG 1 amp FUSES 10/\$1;  
SLO-BLO 3AG 1 amp, 10/\$1.25;  
In-line FUSEHOLDERS for 3AG, 5/\$1  
**41-81** LOUD BUZZER HORN as used  
in smoke alarms; 2" dia  
1 1/4". 6 VDC \$1.25 ea;  
12 VDC \$1.35 ea; 115 VAC \$1.45 ea

**46-86** DRILL BITS for PC board work;  
1/8" shanks. Specify size #59 or  
#75. 2/\$1.50; 10/\$5 (one size).

LINE CORD, 2-conductor #18 gauge  
as on appliances; 6 feet long,  
white. NEW, 3 for \$1.25 **43-83**

**23-77** BRASS COUPLINGS for 3/8" dia. x  
3/4" long shafts. 3 for \$1.00

PHONE MODULAR SPLITTER,  
fits wall mod jack; adds  
2nd outlet for computer or  
answer machine, \$1.95 2/\$3 **48-87**

**50-88** Miniature LEVEL METER,  
FS-100-0-100 microamp;  
7/8" sq., flange mount  
1-3/16" o.c. \$1.50 ea

MILTON BRADLEY TOY HEADSET w/boom  
mic--NO receiver elements; 6 ft  
cord & mini-RCA plug. NEW \$1.50 **49-87**

**42-82** RUBBER EQUIPMENT FEET 1-1/8"  
dia rubber with 1" L #1x20  
bolt; w/o nut. 8/\$2.00

RUBBER EQUIPMENT PADS, 5/16" dia  
self-adhesive; 40 per sheet.  
2 sheets for \$1.50 **47-86**

**38-79** SPEAKER, 3" dia 8 ohm 3/4 W  
or similar, NEW, \$1.00

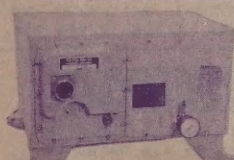
## 1 KW POWER AMPLIFIER



T-605/ARC-58 TRANSMITTER,  
functions as 1 KW nominal  
PEP (400 W PEP AM-SSB-  
Tone) 2-29.999 MHz linear  
amplifier when used with  
R-761/ARC-58 receiver  
which supplied 0.2 watt  
PEP input drive. Will op-  
erate as 1 KW linear with any 0.2 W input.  
Two stages of amplification using three  
4CX250 tubes in P-A and tuned by servo amp-  
lifiers and motors. T-605 requires some  
frequency band information from a separate  
control box or panel that operator must  
provide. Also requires 115 V 400 Hz 3 phase  
for power supply which has output 2000 VDC  
500 MA, 400 VDC, 27.5 VDC, 6.3 VAC, -40 to  
-80 VDC and 115 V 400 Hz 1 O for servo mo-  
tors. With tubes 2/6CL6, 5896, 3/4CX250.  
7.8x10.25x24, 55 lbs sh. Used, \$325.00  
Connector for T-605/ARC-58, \$5.00  
SCHEMATIC for T-605, \$4.00 w/set purchase.

C-3141/TRC-75 CONTROL BOX  
for T-730/TRC-75, ground  
version of T-605 above. Pro-  
vides On/Off, Channel and  
Mode selection, Gain control  
for the receiver and trans-  
mitter units of the TRC-75  
system and appears to be  
usable with ARC-58 equipment. (Control box  
schematics essentially the same.) Requires  
27.5 VDC. 5.3x5.8x7.8, 6 lbs. Used, \$29.95  
CONNECTOR for C-3141 control, \$5.00.  
SCHEMATIC f/ C-3141 or C-1939/ARC-58, \$2 ea

## 1 KW COLLINS COUPLER



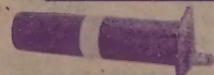
CU-714/SRA-22 AUTOMA-  
TIC ANTENNA COUPLER,  
Collins 180T-2; oper-  
ates from common 115  
VAC 50-60 Hz power  
and usable with 2-30  
MHz transmitters hav-  
ing 500 watts average  
output or 1 KW PEP.  
50 ohm input impedance; matches 35 ft  
whip antenna or 35 ft min. long-wire. Major  
components motor-driven vacuum capacitor  
UCSL-465-5, variable ribbon inductor, and  
blower in cast aluminum cabinet with large  
lead-in insulator on rear. Originally used  
with separate control unit (not available).  
DC output provided for monitoring capaci-  
tance and inductance. 11.5x18.9x20, 46 lbs.  
Used-complete, but not checked, \$149.50  
MANUAL, part-repro, \$12. SCHEMATIC only, \$4.

CU-714 "AS-IS" LESS CABI-  
NET, some units of above  
antenna coupler available  
"damaged" with broken con-  
nectors and external cor-  
rosion. Because less cabi-  
net, they are less blower  
and lead-in insulator. "As-Is"  
units have good UCSL-465 & ribbon inductor.  
8x6.8x15, 18 lbs sh. #CU714-DLC, \$99.50

## 12 VDC LAMBDA SUPPLY

LAMBDA DC REGULATED  
POWER SUPPLY, supposed-  
ly a special cold envi-  
ronment (-40°C) version  
of LNS-P-12 with reduced  
output of 12 VDC +/-5%  
5.0 amps @ 71°C from 120  
VAC +/-10% 60-100 Hz input. Because schem-  
atic differences are minimal, we "loaded" the  
supply and found it to have nearly the same  
output as the standard LNS-P-12 output of  
7.3 amp @ 71°C or 14 amp @ 40°C. Regulation  
0.1%; screwdriver Voltage Adjust. Can be  
rewired for 215-254 VAC input; 11x4.9x4.4,  
16 lbs sh. #LNSP12-8182, NEW w/book, \$45.00

## UHF BROADBAND DIPOLE

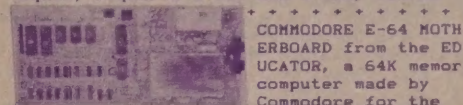


AT-803/VR CENTER-FED  
BROADBAND VERTICAL DI-  
POLE ANTENNA for 225-400  
MHz; p/o VRC-24/TRC-68  
UHF radio equipment. Female N RF connec-  
tion; 9.3"Lx2.3" dia, 3 lbs sh. Used, \$15.

## COMMODORE MOTHERBOARDS



#VIC-01981 #VIC-01983  
MOTHERBOARDS for COMMODORE VIC-20, the ever-  
popular 5K memory color computer which still  
has a dedicated following. All components  
intact. "Some worked, some didn't" when we  
powered-up a sampling and so we are selling  
them "AS-IS." Good source of spare parts or,  
if you're a gambler, the basis for cheap com-  
puter; 3 lbs sh. Two versions to choose:  
#VIC-01981, eleven 2114 RAM; 9 VAC req \$14  
#VIC-01983 with two M58725 2Kx8 RAM or  
equal; requires 9 VAC and 5 VDC, \$13.50



COMMODORE E-64 MOTH-  
ERBOARD from the ED-  
UCATOR, a 64K memory  
computer made by  
Commodore for the  
"school" market; same as 1982 version of  
C-64 motherboard. Units DO HAVE the expen-  
sive-to-replace support IC's such as two  
6526's, 6510, VIC, RAM, ROM and others. They  
DO NOT HAVE the RF modulator, video ROM,  
SID, power switch (or power input socket)  
and some misc components. Requires 9 VAC  
and 5 VDC. Buy for spare parts or for ex-  
periment! 3 lbs sh. #MB-E64, AS-IS, \$24.95

COMMODORE C-16 KEY-  
BOARD, originally  
p/o the C-16 com-  
puter--a short-lived  
transition computer  
between the VIC and C64. By switching a few  
wires, it will work with VIC on most keys.  
Change info included. 5x15x1.5; 3 lbs sh.  
#KB-C16 \$3. (If purchased w/VIC board \$1.50)

## COMPAQ SWITCHERS



COMPAQ  
SWITCHING  
POWER SUPPLIES  
from the most  
successful IBM  
PC clone; removed from equipment. "AS-IS,  
not tested" (but cheap!); \$5.95 ea, 2/\$10.  
#COMP-PS-1982 from early portable; outputs  
+5, -5, +12, -12 VDC. 7.4x5.4x2.4, 3 lbs.  
#COMP-PS-200W, later 200 W supply w/out-  
puts +5, -5, +12, -12 VDC; 9x6x2, 4 lbs.

## 9.5 VDC ADAPTER



AURORA TOY WALL TRANSFORMER,  
changes 120 VAC to 9.5 VDC  
350 ma output. 6' cord with  
slide lugs; 2 lbs sh.  
#AUR-95V34VA, 2/\$5.00 2/\$4.00  
CERVCO AC ADAPTER, 11.5 VDC 175 ma output;  
6' cord w/o lugs. #CER-11.5V, 2/\$4.00 2/\$3.00

## TV-7 TUBE TESTER

TV-7 TUBE CHECKER,  
portable unit tests  
most military and  
older commercial re-  
ceiving and low-power  
transmitting tubes.  
Indicates dynamic mu-  
tual conductance,  
emissions, gas, noise,  
and shorts. Test sockets for octal, loctal,  
4-, 5-, 6-, 7-pin, 7- and 9-pin miniature,  
acorn, flat and round subminiature tube base  
sizes. With tube test data book. Requires  
115 VAC 50-1000 Hz. 6.3x8.5x15.8, 22 lbs sh.  
Used-repairable, \$45.00; Checked, \$75.00

## RG-213 & RG-214 COAX



High quality coax lengths  
which substitute for pop-  
ular RG-8 cable. Each  
with type "N" connec-  
tions; unused AT&T sur-  
plus; #RG 213-15, 15 ft.  
length of RG-213; 5 lbs sh. \$8.95 ea, 2/\$16  
#RG 214-45, 45 ft. of RG-214 with silver-  
tinned conductor and double shield for super-  
ior performance; 15 lbs. \$24.95 ea, 2/\$45.



## R-1511 RECEIVER

R-1511/GR HF RECEIVER, 0.54 to 54 MHz AM in six bands. Looks like and has the "front end" electronics of Hammarlund SP-600 but the IF and demodulation circuits are transistorized and unique to the R-1511. Has 13 PC boards including Video Channels A & B, Panoramic Amp (IF out), and Narrow Band Monitor/Metering Circuit all with separate outputs. (We measured "Narrow Band" to be 40 KHz to the phone jack!) Besides tuning controls, front panel has RF Gain, AGC On/Off, Marker Control, BFO (non-adjustable), dimmer, and 0-100 db Video Level meter. Rear jacks for PAN out, Ch A, Ch B, Wavetrace, Ch A CONV/FLT, Ch B CONV/FLT, ANT, and VFO Monitor. Might be worthwhile to modify this radio with some inexpensive ceramic 455 KHz filters; no further info. Requires 115/230 VAC 60 Hz; 10.5x19x17.5, 70 lbs sh. Used-repairable, \$150.00

## VACUUM CAPACITOR

RF VACUUM VARIABLE CAPACITOR ASSEMBLY, consists of UC5L-1000 7-1000 pf 3 KV max vacuum variable with 28 VDC drive motor and gear assembly. Will run on 6 VDC and up. 8x6.8x3, 7 lbs sh. #C501/180L, used, \$69.95

## RIBBON INDUCTOR

VARIABLE RIBBON INDUCTOR with motor drive; p/c Collins 180L antenna tuner. Consists of two 5.4"L x 3.375" dia coils with 288" of drawn silver ribbon (0.125" w x 0.01" th) wound between; approx 28 uH. Ribbon is transferred from one coil to the other as a 28 VDC motor turns both. O/a 9.5x5.8x5.8, 10 lbs sh. #L401/180L, used, \$34.95 \$29.95

## GM MOBILE MIC

GM DELCO MICROPHONE for mobile communications; black with push-to-talk button switch, coil cord, and 5-pin male connector. Mic 3.3x2.3x1.8, 2 lbs sh. #GM-DEL-MIC, NEW, \$7.95 ea

## SURVEILLANCE RECEIVERS

G175F SURVEILLANCE RECEIVER, 30-260 MHz AM-FM-CW in bands 30-90 and 60-260 MHz; IF's 2.455-2.5-21.4 MHz for bandwidths 10-40-300 KHz. Sensitivity 1 uv (AM), 2 uv (FM) min. @ 10 KHz bandwidth. Also controls BFO, AF-RF Gain, Squelch, CURS Sens, Fine Tune, Nut-vistors 13/7587, 6/6CW4, 2/7077; some transistors. Requires 115 VAC 60 Hz; 24 VDC for lights. No further info; 4x18.3x17.5, 27#. Used-operational/not to specs, \$325. \$265.

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G166C RECEIVER, companion to G175F except 235-1000 MHz AM-FM-CW in bands 235-500 and 460-1000 MHz; 40 and 300 KHz bandwidth. Used-operational/not to specs, \$400.00

## R-648/ARR-41 RECEIVER

R-648/ARR-41 RECEIVER 190-550 KHz and 2-25 MHz AM-CW in five bands. Mechanical digital-type tuning in 1 KHz steps. 300 KHz final IF; mechanical filters 1.4 abd 6.0 KHz. Controls for BFO, Sensitivity, Broad-Sharp, Voice or CW, and Dial Lock. With tubes 25Z26, 6X4, 2/5750, 2/5814, 5654, 5686, 6005, and 0A2. Requires 24 VDC 4 amps; input fct dynamotor. 5.5x4.3x3, 35 lbs sh. Repairable. 125. Checked, \$220. \$195. MANUAL, partial repro \$15. Schematic \$2.50 Power input connector, \$3.00 w/set purchase.

## 30-300 MHZ RECEIVER

R-1420/URR (CET 905A) UHF RECEIVER, covers 30 to 300 Mhz AM, FM, CW in bands 30-90 and 60-300 Mhz; bandwidth selective 20 or 300 KHz. IF 21.4 Mhz; IF reject @ 30 Mhz is 54 db, above 50 Mhz is 80 db. Sensitivity: 1 uv/4 uv (AM) and 2 uv/6 uv (FM) for bandwidths 20 KHz/300 KHz @ modulated 1 KHz. Video output 5 vrms across 10K ohm load. Meters for Tuning and Signal, separate band tuning knobs and dials, BFO, RF/IF Gain, Audio Gain, Video Gain, Cor Sens, 600 ohm a/c out. Partially transistorized; has 2/6CW6, 8058, 7587 nuvistor tubes. Requires 115/230 VAC 50-400 Hz; partial repro manual from microfiche included. 3x19x15, 25 lbs sh. Used-operational/not to specs \$395

## 30-1000 MHZ RECEIVER

R-484/APR-14 AIRBORNE PANORAMIC SEARCH RECEIVER covers 30-1000 MHz AM-FM in bands 30-210; 210-400 and 400-1000 MHz; has 3" dia CRT for panoramic display of these signals. RF bandpass 6 MHz @ 3 db points. Sensitivity: 11 uv max (30-100MHz), 13 uv (100-300), 16uv (300-1000). Spurious response 45 db down; image reject 60 db down. IF attenuator 0-74 db in 6 db steps. CRT calibration +3 Mhz center freq; video response +1 db, 200 KHz-2 Mhz. 600 ohms audio; 45/7-9-pin mini and octal tubes plus 3JP1, 6F4, and 5678. Req 115 VAC 380-1000 Hz and 24 VDC 20 W. 8x15.5x20, 90 lbs. Used-repairable \$250; MANUAL repro \$15.

## ROLLER INDUCTORS

PLATE ROLLER INDUCTOR, 26 turns #16 GA silver-plated wire 3.75"L x 2" dia coil for 14.5 uH max inductance. Has 115 VAC 400 Hz motor/rate generator (will run on 26 V 60 Hz) and 20K ohm multi turn pot geared together in feedback system. Shaft on inductor can be adapted to direct-drive operation. O/a 6.75x4x5, 3 lbs. #L13/ARC-58, used, \$36.95

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L5 ROLLER INDUCTOR, part of input tuning of ARC-58; 26 turns #18 silver-plated wire 2"L x 1.125" dia coil for 8.4 uH max inductance. Has 115 V 400 Hz motor/rate generator (runs on 26 V 60 Hz) and 20K pot in feedback system. 3/16" dia shaft adapts to direct-drive. O/a 6x3x4.75, 3 lbs sh. #L5/ARC-58, used, \$16.95

## VERTICAL GYRO

115 VAC 400 Hz VERTICAL GYRO ASSEMBLY with 24 VDC caging solenoid pictured with cover removed. 360 degree roll; +/-85 degree pitch. Gyro output is to be used with selsyn-type receiver indicators. 6x4x4 in sealed can; 6 lbs sh. #V6-1701-319, used, \$19.95 \$15.

## GYROSCOPE ASSEMBLY

HONEYWELL VERTICAL GYRO ASSEMBLY #J6-7044-A17, single pitch and roll gyro with 400 Hz motors, mercury switches, etc. Gimbal freedom: ±360° (outer axis, longitudinal), ±85° (inner axis, transverse). Erection rate 2°-6° min. Also 400 Hz 1 Ø motors 26 V (torque), 115 V (caging solenoid), and 115 V 21000 RPM (power motor). Pick-up pots: 30K² ohm ±168° (roll), 30K² ohm ±80° (pitch). Angular momentum: 4.75x10⁶ gm cm/sec. Unit has "line of flight" monitors for normal loft or alternate O/S. 7.5x9x6; 11 lbs. Used, \$25.00

## SSB HF TRANSCEIVER

RT-594/ARC-38A AM-LSB-USB HF TRANSCEIVER, 2.0 to 25 MHz using 20 pre-set channels with autotune channel change. Uses stabilized master oscillator which allows possible 35250 channels in frequency intervals of 500 Hz (2.0-7.25) and 1000 Hz (7.25-25.0 MHz). Transmitter output: 100 watts peak min (2-14.25 MHz) 90 W (14.25-25 MHz). Antenna tune power: 50 W. Receiver SSB sensitivity: 1.5 uv for 10 db signal + noise to noise ratio. Selectivity: 3 KHz min 6 db down, 8 KHz max 60 db. Has 25 tubes including three 6159's in PA. Requires +28, +600, +250, -50, -65 VDC and 6.3 VAC. Also 115 VAC 400 Hz for selsyn on PA inductor. 15.5x8x23.5, 80 lbs sh (UPS in 2 pkg). Used-not checked, \$210.00 MANUAL partial repro, \$20.00

C-1398/ARC-38 CONTROL BOX, channel selection for RT-311/ARC-38 but function switch can be modified for use with RT-594; see page 24. Used, less frequency setting book, \$15.00 SETTING BOOK for C-1398/C-3428, repro, \$10.

DY-118/ARC-38 DYNAMOTOR for RT-311-594/ARC; provides all DC voltages from 28 VDC 6.6/26 amp Rx/Tx. 4.9x6.8x18.3, 25 lbs. Used, \$35.

CU-351/AR AUTOMATIC ANTENNA COUPLER, companion coupler to RT-594/ARC-38A; similar to Collins 180L3 described on page 24 except has Cannon-style control connector and type N connection instead of UHF. Usable with any 2-30 MHz transceiver in 50-180 watt output range. Automatically resonates an antenna to transceiver's frequency and couples RF signal between the two. Coupler has 7-1000 pf 3 KV vacuum variable capacitor and 28 uH variable ribbon drive inductor. Requires 28 VDC 3 amps, 250 or 400 VDC 35 ma, and 115 VAC 400 Hz 20 VA. 10.5x7.8x11.5, 24 lbs sh. Used, \$115; Manual f/180L3, part-repro \$10.

RT-311/ARC-38, similar to RT-594/ARC-38A except not SSB; used-not checked, \$85.00

## AIRCRAFT TRANSCEIVER

RT-524M AIRBORNE TRANSCEIVER mfg. by Aircraft Radio; covers 136.00 to 149.95 Mhz AM in 50 KHz crystal-controlled steps. 15 watts output. Has volume and squelch controls. Requires 24 VDC 6 amps. With tubes 6156, 2/8102, 6/6CW4, and 2/7587. Schematic included. Size: 6.5x3.5x14, 10 lbs sh. Used, no cover, \$54.95 \$40. MANUAL for RT524M, partial repro, \$10.00

## R-901/GR DF RECEIVER

R-901/GR DF RECEIVER, 0.54 to 20.5 Mhz AM-CW in bands 0.54-1.15, 1.1-2.36, 2.25-4.84, 4.65-9.9 and 9.5-20.5 MHz. 455 KHz IF; bandwidth 1.5 or 4 KHz using two Collins mechanical filters. Built-in crystal calibrator and controls for BFO, RF-AF Gain, Bandwidth, Power Select, Power Monitor meter, Band Switch, Ant Trim. Antenna inputs for 50 ohm directional loop and conventional whip; 600 ohm audio output. Requires 24 VDC or 1.5 V 445 ma and 45 v 30 MA; 11 sub-mini tubes. 8.8x14.5x9, 27 lbs. Used-repairable, \$165.00 CHECKED, \$245. MANUAL, partial repro, \$12.

AM-1955/GRC AMPLIFIER CONVERTER USED WITH R-1148/GRC-55 RECEIVER FOR 600-1000 MHZ BAND. 17 Mhz IF. Has 115 V 60 Hz MOTOR AS PART OF AFC SYSTEM. WITH TUBES 2C40A, 2/5842, 5654, 1N21B, IN21WE. 150 VDC AND 6.3 VAC REQUIRED. SIZE: 15x9x8; 30 LBS. SH. USED, \$38.00 \$38.



## BANDPASS CAVITIES

TWIN-CAVITY BANDPASS FILTERS, p/o AN/TRC-24 radio. Gold-plated cavities have tuning knob & dial. See 2/80 Ham Radio conversion info; 7x2.5x9.5, 7 lbs. Used, \$20.00 each:  
F-240/U (67 to 76 MHz)  
F-241/U (76 to 84 MHz)

F-196/U (163-184 MHz) F-203/U (344-374 MHz)  
F-199/U (224-254 MHz) F-204/U (374-404 MHz)  
F-200/U (254-284 MHz) F-235/U (500-550 MHz)  
F-201/U (284-314 MHz) F-236/U (550-600 MHz)  
F-202/U (314-344 MHz)

## MOTION DETECTOR

MOTION SENSOR, interesting security device that detects change in ambient light. When someone or thing passes through its 15 ft sensing range and disturbs the light environment, sensor trips alert siren. Utilizes LM324A op-amp and photo cell tied to a zero (null)-seeking circuit. Grey plastic case; requires (4) AA batteries (not included). 5.5x4x1, 2 lb. #IS-MO-DE, NEW \$4.00

## SPARES CASE

CY-1031 SPARES CASE, originally used with GRR-5; space for 7- and 9-pin mini tubes, 4 GT-tubes, 2 vibrators, and fuses. Hinged w/fastener; 3x9.8x4, 3 lbs. Used, \$4.

## PLASTIC CASH DRAWER

RUGGED PLASTIC CASH DRAWER with keylock; a good item for the small business man or flea marketer who wants to better organize and protect his or her receipts. Brown slide-out drawer has black removable tray with 13 compartments for currency, coins, checks, receipts, etc., adjustable dividers, and five spring-loaded currency retainers. Handsome textured black case has reinforced top. 5x19x21.8, 15 lbs. sh. #PL-CD-685, NEW, \$29.50

## DUAL RUNNING TIME

TWO ENGLER 2.9" dia 115 VAC running time meters with 5-digits + tenth hour indication. Sodeco 115 VAC 7-digit counter and three reed relays all in 3.5x8 x3.3 black metal box; 3 lbs. #2RTH-CB, used, good-condition \$14.95

## PROJECT ENCLOSURES

#SA-1499 TERMINAL BOX, usable as 3.5x7x5 project box; has two conduit holes one end, two connectors on other. Inside 15-term 3/4" barrier strip and P&B MH230D 12 VDC sealed relay; steel; 5 lbs. Used, \$2.95

#JB-416161 STEEL JUNCTION BOX, 4.1x6.1x6.1 with three knockout holes on each side for conduit. Dark gray; 5 lbs sh. NEW, \$4.50

#ENC/ROMII ENCLOSURE, designed for portable test instrument; cover telescopes and slide-snaps over slant-style bottom. Top handle and rubber feet on back and bottom. Slanted section 2"D min to 3.8"D max; o/a 8x8.5x5.3, 3 lbs. Unused, \$5.95

ALUMINUM ENCLOSURE and frame from antenna coupler. Adapt as-is or re-work; 7.5"H x 10"W x 10"D. Front has cut-outs for 1-3/4" sq meter and two connectors. Also removable 4.5"x2.5" insulator. 8 lbs sh. #ENC/180L, \$6.00

## SPEAKERS

BOOKSHELF SPEAKER in walnut-grained vinyl-covered 7x10x2 1/2 enclosure. Has 4" dia 16 ohm 1 W speaker and 6 foot cord with RCA plug; 2 lbs sh. #ER-WD-SFK NEW \$4.50 ea 2/\$6.

SPEAKER PAIR in PLASTIC ENCLOSURES, each 4" dia 16 ohm 1 W speaker in attractive 6x6x5 1/2 enclosure with 6' cord and RCA plug. White & black plastic per pic; 4 lbs sh wt. #ER-PL-SFK-PR NEW \$3.95/pr  
SPEAKER WRAP for assembling 10x20x4 walnut-grained vinyl-covered enclosure; no grill cloth. 7 lbs sh. #ER-SFK-ENO, 2/\$2.00  
3 X 5 SPEAKER, 2 watts with 1 1/2" dia magnet. Specify 8 or 16 ohm 1 W; 1 lb, 1.35; \$95/100  
\*\*\*\*\*  
100 - 500 LOT PRICING available on all above.

## PAGING MIC

MUZAK MBL MULTI PAGE MICROPHONE, dynamic 150 ohm mic is designed for paging and features switching for three page zones plus one "all-call" switch. Usable with amplifiers having input impedance of 50 to 250 ohms; 40-10000 Hz frequency response. With four SPDT rocker switches and 10 foot 8-conductor cord; 3 lbs sh. #MBL-MIC, NEW, \$24.95 \$19.95

## ACCESSORY BAGS

all CANVAS in nice usable sizes to carry or store different items; used-good condition:  
BG-172 RUCKSACK BAG, adjustable shoulder straps for backpack carry; 13x13x10 with two external pouches 12"Lx10"H and 12x4 plus four small internal pouches. 6 lbs sh., \$6.00

BG-186 BAG, thin 9.8x14x4 size with three internal compartments; snap closure and strap, 3 lbs sh., \$5.00

CW-189 BAG 9x10x10 with two-snap cover and carrying strap; p/o GRA-6, 3 lbs. \$7. \$4.50

CS-76 BAG, similar to CW-189 except 7x10x8 with strap closure, 3 lbs sh., \$4.00

## 20 HZ STATIC RINGER

20 HZ INVERTER MODULE, used in telephone equipment to produce 20 Hz 65 volt 50 ma ringing signal from 110 VDC 65 ma input. 3.4x2x3, 2 lbs. #E10/TA182 used \$7.95

## PROJECT BOXES

ALUMINUM TRANSIT CASE, originally for test meter but easily adaptable for your project; interior 11.6"Lx8.2"Wx5.3"D. Hasp fasteners; one pair retain top cover. O/a 14.3x10x7.4; 6 lbs. #CS-TCC-11, used, \$6. 2/\$10.

PROJECT CHASSIS, nice 10x12x3.5 size w/capacitors 50000 & 4700 mf 25 VDC; 7 lbs. #CH-3REG, used, \$4.  
#CS-48, steel outer CASE-ENCLOSURE for BC-191/375 tuning units; black finish, no top. 7.8x16.8x7.9, 3 lbs sh. \$3.00 ea; 2 for \$5.

## TELESCOPING STAND

PROFESSIONAL QUALITY TELESCOPING STAND two 20" long chrome sections; bottom 1.1" dia, upper 0.9" dia. Steel triangular base has 2" dia casters and is 20" across caster to caster. Removable 7" long bracket can be used to mount small item such as speaker, test instrument, etc. (A third telescoping section could be added to really increase possible uses.) 27 lbs. #2020-TST, used-good \$24.95 \$18.95

## TRANSISTOR AUDIO AMP

TRANSISTOR AUDIO AMPLIFIER w/6-transistors, on-off-volume and tone controls. Inputs for ceramic or crystal phone cartridges. Other possible uses as home-brew receiver, intercoms, child's projects. Use with 8 or 16 ohm 3" or 4" speaker. Req 6-9 V AC or DC; with schematic. 1 1/2x2 1/2x3 1/2. #ER-10-1231 NEW \$2.95; 2/\$5.00 -100, 500, 1K LOT QUANTITY PRICES AVAILABLE-

## ENCLOSURES

STEEL CABINET with lift top for 7"Hx14"Wx8"D panel. O/a 8x16x8 1/2, 7 lbs. #SK-CAB7148, used, \$5.95. PANEL with miscellaneous parts f/above, \$1.50

CY-2126/TRC CABINET w/115 VAC 5" fan on rear; f/panel 19.3"Hx19"Wx14.5"D, 30 lbs. Used \$22.

PRINTER STAND/COMPUTER CABINET 24.5"Wx12"D top plus large bottom-hinged door to access interior. On-Off switch for 6-outlet AC strip w/8' AC cord. Black-krinkle finish; 23.8"H, 50 lbs. #PS-TTY, unused, \$22.95 \$14.95

FILE CABINET for items upto 9 1/2" wide X 8 1/2"H; o/a depth 24". Steel, O.D. green; 14 lbs. \$6.

CS-618S1 CASE w/CHASSIS, 15 1/2"Wx8"Hx23 1/2"D (20"D behind panel). Some cut-outs on front; may be usable for antenna tuner or transmatch project. Aluminum; 20 lbs. Used \$12.

CS-1060 CASE w/CHASSIS, p/o small scope; o/a 8"Wx7 1/2"Hx13"D. Front has cut-out for 3"CRT; some parts on chassis. Handle on top; 10 lbs. Used, \$8.95

## STORAGE CASES

PLASTIC STORAGE CASE, rugged but light with hinged top, hasp fastener, and recessed top grip. Two glued spacers; interior 7.5x6.3x5.3. Handy item for shop; 2 lbs. #CS-PL-SR, used, \$2.25; 2/\$3.50

CV-425 ALUMINUM CASE with rounded corners; sturdy single compartment construction with hasp-type fasteners. Interior 9.3x10x5.8, 6 lbs sh. Used \$6.00

CY-4321/GRC-109 SPARES BOX, single 5x10x3 compartment; steel with hasp fasteners. 5 lbs sh. Unused, \$4.95

FIBERGLASS CASE with carrying handle and six hasp fasteners; lid not hinged. Lower section 13.5x8x9; cover 3.5" deep. Has fittings and rubber shocks to be removed. #FIB-SR-684 11 lbs sh; used, \$7 ea; 3/\$15.

#CS-TH-14 ALUMINUM TRANSIT CASE with hasp fasteners; interior 17.5x19.5x8. 22 lbs sh wt; used, \$10.00

#CS-URM11 METAL-CLAD CASE, top hinged, side handles and fasteners. 10x15.5x12.5, 18 lbs. \$12

## EQUIPMENT RACKS

#GSQ-19-80 RACK, o/a 80"Hx24"Wx26"D for panel 73x19; has rear door, 24"H lower front door and removable upper angled mount for easy viewing of 7"H panel; 300 lbs sh. Used, \$100.

MCLEAN EQUIPMENT BLOWER RACK, rackmount assembly has dual 115 VAC 60 Hz 1.6 amp 1700 RPM blowers, top & bottom slide-in filters, and line cord; 5"D behind panel. 23x19x8.3, 35 lbs sh. NEW \$29.50



## R-390A/URR HF RECEIVER



R-390A/URR RECEIVER famous military set covers 0.5 to 32 MHz AM-CW-MCW in 31 one MHz bands read directly on mechanical digital counter. 455 KHz final IF; has four Collins mechanical filters allowing 2-4-8-16 KHz selectable bandwidth. Calibration points every 100 KHz; also BFO, AGC, dial locks, 500 ohm audio out, Line and Carrier Level meters. Rackmount; no covers. Requires 115/230 VAC 60 Hz. 10.5x19x16.8, 95 lbs (UPS).

2 pkgs). Used-repairable, less meters, \$175. CHECKED, complete, \$345. Less meters, \$295. MANUAL, maintenance, partial repro, \$15.00.

R-390A "AS-IS", less meters, 3TF7, BFO, and covers; "visually inspected" only, \$135.00  
\*\*\*\*\*

## R-390A R-392 R-648 PARTS

REPLACEMENT ASSEMBLIES & PARTS for the popular military receivers R-390A (A), R-392 (B), and R-648/ARR-41 (C). SPECIFY receiver type and chassis designations of parts!

----- ASSEMBLIES -----  
AUDIO SECTION: \$18(A), \$30(B), \$15(C)  
CRYSTAL CAL CHASSIS, \$30(B)  
CRYSTAL OSCILLATOR (less crystals) \$20(A,B)  
DYNAMOTOR POWER SUPPLY, \$20(C)  
IF SECTION, CHECKED: \$150(A), \$35(B) \$90(C)  
RF AMPLIFIER SECTION, \$15(C)  
RF DECK, complete: \$140(A), \$95(B)  
RF/IF TUNER LESS VFO, \$90(C)  
RF OSC ASSY LESS CRYSTALS, \$15(C)  
SPECTRUM GENERATOR, \$15(C)  
VFO, (COLLINS): \$60(A,B), \$40(C)  
VFO, (NOT COLLINS), \$40(A,B)

----- SMALL PARTS -----  
ANT TRIM KNOB, small, \$1.25 ea (A,B,C)  
AUDIO TRANSFORMERS, \$4.00 ea (A,B,C)  
BAND XTALS \$10 ea (A,B,C); 5/935 (f/one Rx)  
BEAT FREQUENCY OSCILLATOR, \$15.00 (B)  
COUNTER DIAL, \$15.00 (A,B,C)  
HANDLES, per pair \$7.00 (A,C)  
200 KHZ CRYSTAL, \$18.00 (A,B)  
MECHANICAL FILTER 1.4 KHz, \$45.00 (C)  
MECH FILTER 2 or 4 KHz(A), 6KHz(C), \$35 ea  
MECHANICAL FILTER 8 KHz, \$27.00 (A)  
MECHANICAL FILTER 16 KHz, \$20.00 (A)  
MHZ/KHz KNOB: \$6 (A), \$4 (B), \$5 (C)  
RF, IF, AUDIO GAIN POTS, \$2.00 ea (A,B,C)  
RF-IF-AUDIO KNOB mid-size, \$1.50 ea (A,B,C)  
RF/IF TRANSFORMERS, \$8.00 ea (A,B,C)  
SLUGS only, \$3 ea (A,B,C); with RACK, \$4 ea  
GEARS #39 or #21, \$6 (A); others, \$3 (A,B,C)  
GEAR CLAMPS (specify gear), \$1.50 ea (A,B,C)

## 0.5-32 MHZ RECEIVER

R-392/URR RECEIVER, 0.5 to 32 MHz AM-CW in 32 one MHz bands using mechanical digital tuning. Triple conversion on lower 8 bands, double on others. Selective bandwidth 2-4-8 KHz; 100 KHz crystal calibrator points. With 25 tubes of 26A7, 26A6, 26C6, 26D6, 6AJ5, 12AU7. Requires 24-28 VDC 5 amps. Rugged vehicular version of the famous R-390 receiver. 11x14x11; 58 lb sh.wt. Used-repairable, \$165. Checked, \$235. MANUAL for R-392, partial repro, \$15.00. LS-166 SPEAKER for R-392, used, \$12. w/set. 115 VAC POWER SUPPLY f/R392-no connector \$25.



## SWR INDICATOR CIRCUIT



STANDING-WAVE RATIO INDICATOR CIRCUIT, assemble a SWR meter using this 1 1/2" square 0-10 scale (FS=2 MA) meter with filters and rectifiers and a modified Schering bridge. One pair of bridge arms is resistive, the other capacitive. In theory the bridge circuit is balanced when the antenna is tuned to 52 ohms resistive resulting in a zero reading on the meter. SO-239 connector. Bridge: 2x2x1; 2 lbs. #M701/CU-991, \$8.95

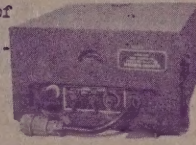
## FACSIMILE TRANSCIVER



STEWART-WARNER MODEL 180 DATAFAX TRANSCIVER, facsimile machine designed to send and receive printed matter and images over telephone lines or private wire. Produces up to six shades of gray. Drum scanner speed: 180 RPM; 6 minute transmission time for 8x11 message. Receives 1500-2500 Hz signal; 2150 Hz required to activate demodulator. Select manual or automatic operation modes. Uses 200' rolls of facsimile paper (not available). Units tested for basic send-receive; some adjustments may be necessary. Schematic & info packet included. Requires 100-127 VAC 60 Hz. 16x12x21, 70 lbs USED, \$85.00

## WW-II VEHICULAR RADIO

BC-620 TRANSCIVER, part of SCR-509-510 radio set as used in World War II vehicular communications. Receives and transmits over 20-27.9 MHz FM range on any two of 80 different crystal channels spaced 100 KHz apart. Transmitter output: 1.2 watts. Has tuning meter and tubes 11C6, 11H4, 4/11N5 2/1291, 1294, 4/1299. Uses FT-241 crystal-type (not included) and requires 1.5 VDC 0.7 amp, 90 VDC 45 ma, 7.5 VDC 0.3 A, 150 VDC 45 ma. Size: 12x16x21 1/2, 40 lbs. Used, \$59.50  
CS-79 BATTERY BOX for Manpack use of BC-620 or BC-659; 17 lbs sh. Used, \$7.50  
SCR-509/510 MANUAL, partial repro, \$10.  
SCR-609/610 (BC-659) MANUAL, \$7.50  
TS-13 or equal HANDSET, \$14 w/set purchase.



## MILITARY BATTERIES

### MILITARY BATTERY BUY-OUT!

We just purchased tons of equipment batteries from the government; all are unused. Use them as intended or for your own special needs. Not rechargeable.



\*\*\*\*\*  
BA-48 for Rx section of RT-77/GRC-9 (p 6 WS-87) or BC-1306; 6 CD & 60 A-cells, 1.5 & 90 VDC. 10/81 date; 10x2.2x4.8, 7#, \$8.95  
BA-216, twelve "F" cells, 4.5 VDC; 4/80 date code. 3.9x3.9x6, 4.5 lbs sh, \$3.00  
BA-232, 15 N-cells, 22.5 Volts; 4/83 date code. 1.6x1.3x3, 0.3 lbs; \$1.25 ea, 5/85.  
BA-270 for RT-196/PRC-6 walkie-talkie; 24 AA, 93 N-cells, 1.5, 45, 90, -45 VDC. 9/83 date; 2.8x2.1x7.4, 3 lbs. \$8.95 ea, 12/895.  
BA-279 for PRC-8-9-10 Rx-Tx; 8 CD, 45 B, 45 AA, 8 C-cells, 1.5-67.5-135--6 VDC. 5/79 dates; 8.3x2.3x8.3, 7 lbs; \$7.95 12/872.  
BA-291, 200 FL-2 cells, 300 VDC; 3/80 date. 2.6x2.2x3.8, 2 lbs, \$3.50 ea, 2 \$6.00  
BA-314, 45 FL-3 cells, 67.5 VDC; 6/81 date. 2.8x1.3x2.5, 1 lb; \$1.25 ea, 12/910.  
BA-406, 2 D-cells, 3 & 1.5 VDC; 7/82 date. 2.6x1.4x3.2, 1 lb, 2/\$1.50 ea  
BA-802, 2 F-cells, 1.5 VDC; 6/80 date. 2.6x1.4x4.3, 1 lb, 2/\$1.50  
BA-807, 30 D-cells, 22.5 & 45 VDC; 1/82 date. 7.8x7.1x2.9, 9 lbs; \$8.50 ea, 2/915.  
BA-1277, 3 R-42R mercury cells, 1.3 VDC; 5/83 date. 2.4x1.3x4.2, 2 lbs, \$2.50 ea  
BA-1393, 12 RM-3WA mercury cells, 13 VDC; 2/82 date. 5x1" dia, 1 lb; \$2.00, 3/\$5.00

## PRC-25 MODULE TESTER

AN/GRM-55 TEST SET, use to check test points in modules of RT-505/PRC-25 transceiver and to isolate circuit problems. (Indirect tests only of modules A2, A12-13, A19-20.) Includes TS-1755 test unit, MX-4622 probe, CX-8593 cable Assy and CG-409 BNC cable. Requires 12.5 VDC 1 W per 5 sec test. 5.5x7x8 10 lbs. Used w/operator's manual, \$75.00



## 3.7-4.17 GHz WAVEGUIDE



COPPER WAVEGUIDE, 2"x1" size for the 3710 to 4170 MHz range; Western Electric manufacture, removed from telephone installations. Filters are tuned to preset frequency; adjusting screws can be reset to desired frequency. No further information available.

#1301-Series FILTER with four adjusting screws; 18 1/2" length, \$24.95  
#1303-Series FILTER, two top and two side adjust screws; 6-11/32"L, \$17.95  
#1300-Series FILTER, one top and one side adjust screw; 3-5/32"L, \$12.95  
#400-Series TUNER, two 1/2" dia adjust screws; 2 1/2" long, \$14.95  
#ED51566-30 TUNER/TRANSDUCER, two 1/2" dia adjust screws, one 3/8" dia screw port; 2-7/8" long, \$16.95  
#J368330K1 XMTX AMPL, dual section 2-5/32" and 1 1/2" variable internal port; o/a 4 1/2"L, \$19.95  
#ED3919-31 AMPLIFIER with 416B tube with 3/8" dia screw port adjacent to tube grid cap; assembly silver-plated brass. O/a 5 1/2x3 1/2x3/8, 4 lbs sh. \$27.95  
Mating 6-prong connector, \$2.00

## WW-II MINE DETECTOR

SCR-625 MINE DETECTOR SET, famous World War II unit designed to detect anti-tank mines buried at depth up to 24". Detection indicated on meter attached to handle or audibly by the M-356 resonator. Set includes C-446 13" dia x 1" search coil, BC-1140 control, BC-1141 amplifier, M-350 handle, M-356 resonator, BG-151 bag, CH-156 transit chest, and manual. With tubes 2/LN5 and 1G6. Requires two "D" cell batteries and BA-38 battery (not available) which supplied 103 and 67 VDC. Units have French markings but U.S. manual included. Because of age, not guaranteed operable; 49 lbs sh. #SCR-625-FR, \$55.00



## CANADIAN TRANSCIVERS

CRT-1/CPRC-26 CANADIAN PORTABLE TRANSCIVER, six channel unit for use in the 47 to 55.4 FM MHz range. Receiver consists of RF amp, xtal oscillator, mixer, 4/IF amps, limiter, discriminator, and audio amp. Transmitter has master oscillator, modulator, power amp w/3B4. Uses tubes 2/3B4, 5/1AD4, 56Z2, and 3/5678 all of which are in sealed plug-in modules except the 3B4's. Modules are repairable. Receiver sensitivity about 2 uv, deviation 15 KHz. Transmitter output 300 MW. Receiver requires 1.5 V 550 ma 45 V 12 ma, 90 V 30 ma; transmitter 1.5 V 850 ma, 45 V 8 ma, and 90 V 30 ma. (Battery not available.) With battery box but less crystals. O/a 3x4 1/2x10 1/2, 5 lbs Used \$12.95 \$9.95  
\*\*\*\*\*  
Accessories for CPCR-26: SCHEMATIC, \$1.50  
AT-5001/PRC ANTENNA, collapsible with flex base; 11" folded, 47" extended. \$3.00 ea.  
CP-1/PRC COUNTERPOISE, rubber insulated 4 ft long wire w/split pin plug; use as counterpoise and/or trailing wire antenna. 2/\$1.50  
#CAN-C/PL CABLE & PLUG to convert U.S. H-33 handset to Canadian for above, \$2.50  
H-5002/PRC HEADSET, one 300 ohm element, \$4.  
MODULE SPARES, unused; specify RF OSCILLATOR, IF AMP, MODULATOR, AF AMP --\$1.50 ea, 10/\$10





## 2 - 12-MHZ RECEIVER



RECEIVER SECTION from GRC-9 backpack transceiver, 2-12 MHz in 3 bands AM-CW; 456 KHz IF, 200 KHz calibration points. Controls for AF and RF Gain and headset jacks. With tubes 2/1L4, 3/1R5, 1S5, 3Q4; less grid bias battery. Requires 1.4 VDC 450 ma & 105 V 20 ma. 5x10.5x6.8, 10 lbs. #RX/GRC-9, used, \$28.

#RX/BC1306 RECEIVER SECTION, similar to above but 3.5 to 6.5 MHz and part of earlier BC-1306 radio. 5x9x6, 9 lbs sh. Used, some minor surface corrosion, \$29.95 SCHEMATIC for either receiver, \$2.00 each BA-48 BATTERY for either, unused, \$8.95 CD-1119 BATTERY CABLE, mates to BA-48 but not to receiver, \$9.00

## BANDPASS FILTER



F-237/GRC BANDPASS FILTER, designed to operate from 54 to 70.9 MHz using dial tuning. Bandwidth: 250 KHz @ 3 db points or 4.5 MHz @ 40 db points. 50 ohm output and input impedance. Unit consists of a 3-gang variable capacitor coupled to 3 sets of three sealed cavities. Type C connections. F-237 has conversion possibilities for 6- and 2-meter amateur applications. An article about these by W. Tucker, W4FXE, appeared in 12/60 issue of Ham Radio. 5x11x11, 17 lbs. \$19.95

## CODE PRACTICE SET



AN/GSC-1 CODE PRACTICE SET designed for student practice of Morse code, accommodating up to 10 keys. Hand keying produces either an audio tone with adjustable volume and pitch or a blinker flash. Has effective range of 40 ft. if background noise is less than 60 db Can be operated from 6, 12, 24, or 115 VDC or 115/230 VAC. With built-in speaker, blinker, volume and pitch controls and tubes 6X5 and 2/6AK6. Keys not included. 13x18x11, 58 lbs sh. Used, \$14.95; MANUAL, \$7.50

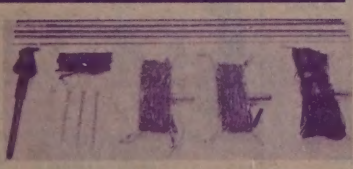
## PHONE JACK STRIPS

TELEPHONE JACK STRIP. 24 jack pairs plus a monitor jack/pair; adjustable 6x26 terminal block on chassis rear. 3.5x19x15, 15 lbs. #J-2098, used, \$28.95 \$22. #J-2097 JACK STRIP, 24 pairs, 3x26 terminal block; 2.8x19x15, 12 lbs. Used, \$26.95 \$15. #24-SWB-PP, similar to J-2097 except no chassis or 3x26 terminal block; 2.1x17.8 x3.8, 6 lbs sh. Used, \$18.00 \$14.00



## FIELD DAY ANTENNA KIT

3 in ONE PORTABLE ANTENNA KIT ideal for "field day" DXing Comprised of GRC-9 2-12 MHz antenna gear combined in single package. Includes AT-101-102 long-wire (#15 stranded-copper) antennas with insulators and clips for adjusting frequency; 5-section 15 ft whip (#3/MS-116, MS-117, MS-118) with IN-127 base; plus CP-12-13 counterpoise for 15 ft radial ground plane. Also guy ropes, 4 guy stakes, & CW-419 canvas carrying bag. NATO-surplus; 22#. #FD-GRC-9, used-good, \$49.50



## TA-1/PT TELEPHONE



SOUNDPOWERED TELEPHONE SET with AUDIBLE and VISUAL CALL SYSTEM. PALM OPERATED GENERATOR PUTS OUT APPROX. 100 V. THAT SOUNDS BUZZER IN OTHER PHONE AND ACTUATES VISUAL INDICATOR. COILED CORD WITH PUSH TYPE

BINDING POSTS FOR INTERCONNECTING WIRES TO BE FASTENED TO. COMES WITH FIBER CARRING CASE. SIZE: 6x3x3 1/2; WT: ACT 2LB USED \$25.00 EACH

## OSCILLATOR



TRANSISTORIZED CRYSTAL OSCILLATOR and BUFFER, 56 to 99 MHz with 75 °C temperature controlled oven. Requires 5th overtone HC-6 (20 pf) x-tal (not incld). Has external oscillator input and tuning meter and oven output. Requires 12-18 VDC reg. for osc., 22-39 VDC 1 amp for heater. W/BNC and two submini 27 (UG-1465) connectors, power input DEC 9P connector, and schematic. 6x2x3 1/2, #OSC99828, \$8.

## MAGNETO PHONES

MAGNETO TELEPHONES for two-wire communications from a fixed location to another. Desk and wall types available; each with handcrank ringing generator, bells, and standard handset w/common U-1 and T-1 elements. 3 V required for voice circuit; Northern Electric mfg. Black; used-checked.

#D-NE-MPH desk-type; 5x6.5x6.9, \$14.50 \$34. #W-NE-MPH wall-type; 5.8x9x4.5, 9#. \$45 \$35.



## FIELD TELEPHONE

EE-8 FIELD TELEPHONE, portable hand-ringing magneto type for use where radio communications are not feasible. Two or more can be used in two-wire system up to 17 miles in length. Connect with two conductor wire; GN-38 handcrank generator signals transmission and MC-131 bell alerts of call. Two "D" cells required to operate TS-9 handset. With carrying case and strap. 8x10x3.5, 19 lbs. Used, \$50 \$40. MANUAL, \$5.



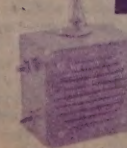
TA-43 FIELD TELEPHONE, rugged light-weight unit replaced EE-8 and can be used with them. Includes G-42 handcrank generator, BZ-3 clacker call-signaler, H-60 handset, and canvas carrying bag w/strap. 12x7x4, 12 lbs. Used-checked, \$65. MANUAL, repro, \$8.50

## RM-39 FIELD CONTROL

RM-39 CONTROL UNIT, allows EE-8 or similar field phone to remotely transmit and receive AM and CW radio communications. Has GN-38 handcrank generator, MC-131 bell, selector for Telephone-Through-Radio-CW, and plugs & jacks for Headset, Key, and Mic. Requires 4.5 V, 15 V, and 3 V from batteries (not available). 5x6x9.3, 16 lbs sh. Used, \$14.95; CS-76 CANVAS BAG, \$5. MANUAL for RC-289 including RM-39, \$7.50



## LS-166 SPEAKER



LS-166 SPEAKER housed in cast-aluminum case with cable and U-77 audio plug for use with RT-70/AM-65 and similar family GRC/RVC radio equipment. 4" dia speaker has heavy-duty PM magnet; also 600:8 ohm audio transformer and Hi-Lo switch. 5x5x3.3, 5 lbs. Used, \$12.00

## TELEPHONE TONE PAD

ITT TONE KEY PAD, can be used for tone control, signaling, and experiments. Each key produces tone output; characters 0 thru 9, \*, #. Requires 9 to 15 VDC; with hook-up info. 3.4x3.3x1.8, 2 lbs sh. ITT #36006, NEW, \$7.95; 2/#15.



WESTERN ELECTRIC #35AF3A TONE PAD, as above, but removed from equipment, \$5.95 ea; 2/#10.

## BURIED WIRE LOCATOR

AT&T MODEL 170A BURIED SERVICE WIRE TEST SET, portable field unit designed to test and trace path of buried telephone wires and to locate wire breaks or line "faults". Consists of 172A Test Set-Transmitter which provides line reference signal and functions Off/Test, Ohms, Trace, Pinpoint and 171A Test Set-Receiver which "tunes" the reference signal on null meter to find the line or fault. Requires AT-8681 ground probe (not available) and two 6 VDC lantern calls and three 9 VDC transistor batteries (not supplied). With carrying case & operator info; 12 lbs. Used, \$59.50

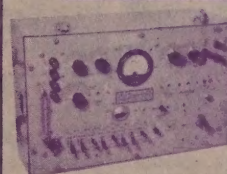


## FIELD PHONE-CONTROL SET

We've taken two items in plentiful supply, C-433/GRC CONTROL & H-33 HANDSET, and have put them together to function as a low cost field telephone compatible with EE-8 and TA-43/312 two-wire field phones. C-433 has handcrank ringing generator and incoming call bell plus circuit for the H-33. Requires two "D" cell batteries (not supplied). C-433 3.5x8.3x7.2; 10 lbs sh. #C433-H33, used, \$24.95; CW-189 CANVAS BAG, holds two C-433's & two H-33's, used \$4.50



## TELEPHONE TEST SET



I-142/PTM-6 TELEPHONE TEST SET, measures characteristics of telephone and related equipment including these operations: 1. Sound source for mics and receivers; 2. Efficiency test for mics and receivers; 3. Capacitor test for leakage resistance; 4. Generator test; 5. Ringer test; 6. Insulation test; 7. Dial test indicating percent of pulse period; 8. Continuity test; 9. Instrument tests such as 600 ohm circuit for sound-powered equipment; 24 V. DC-AC res. circuit for common battery phones; impedance matching circuits for carbon and magnetic mics and receivers. Meter has scales -10 to +6 DB and 0-100 VDC. Requires external batteries for 3, 12, 24, and 135 VDC. Batteries not available. 19x12 x9, 46 lbs sh. I-142, used, \$59.50 \$49.50 TS-903/PTM-6A, more recent; 65 lbs., \$65.00

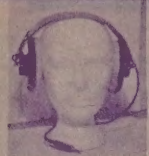
## AM-4531 POWER AMP



AM-4531/6R VHF LINEAR POWER AMPLIFIER by Granger Associates; designed for 120 to 152 MHz range to deliver 50 watt output from 10 W input. Uses 8122 tube in P-A. Has 2.5" rd multimeter with seven position switch to monitor Plate to 2 KV, Screen to 1 KV, Plate RF Peak to 1 KV, Bias to -100 V, Forward Power to 100 W, and Reflected Power to 100 W. Also 2.5" rd 0-300 ma Plate Current meter. Loading and Coupling controls each with lock, and Bias Adjust. Requires 105/115/130/210/230/260 VAC 47-400 Hz. 7x19x14.5, 50 lbs. Used-not tested, \$150.



# Headsets — Telephone Equipment — Microphones — Handsets



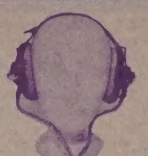
**HS-23 HEADSET, 2K** ohm using R-14 elements and unused grey plastic headband; 4' cord w/plug. Less cushions, \$9.25

**HS-23 w/HB-7** brown headband (not U.S. mfg), 18" cord and PL-354 plug, WRITE

**RUBBER CUSHIONS** MC-162 2.5" \$1/pr MX-41 2.8" dia, \$1.25 per pair

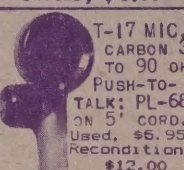
**HB-7 HEADBANDS** #HB7-BR, brown w/ 18" cord, \$3.00 #HB7-G, gray w/ 54" cord, \$3.25

**CX-1334 CABLE**, adapts H-113 or CW49505 to GRC-equip (JK-26 jack and U77 plug, \$4.

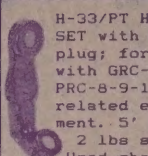


**#2A/CAN3538** dynamic headphones, 125 ohm impd;

**MOVING COIL-TYPE, QUALITY REPRODUCTION. ADJUSTABLE CANVAS STRAP FITS ON TOP THE HEAD; STEEL-BAND BEHIND. WITH CHAMMOIS CUSHIONS, "W" CORD, AND PHONE PLUG. UNUSUED, \$5.95**



**JK-38 PHONE JACK** for inline use; takes two PL-55 plugs, \$1.00 ea

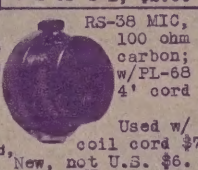


**H-33/PT HANDSET** with U-77 plug; for use with GRC-3--8 PRC-8-9-10, and related equipment. 5' cord, 2 lbs sh. Used-checked, \$15.00 ea

**Western Electric Sound-Powered 1024 ohms D-173016 trans.**

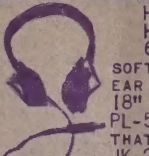
**new \$3.00 ea.**

**Carbon Elements** F-1 Mic. \$1.50 Lip Mics: M-51 M-6 M419 etc. \$1.50 Telephone elements: U-1 or T-1, \$2.00



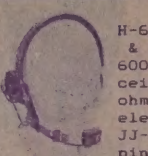
**RS-38 MIC, 100 ohm carbon; w/PL-68 4' cord Used w/coil cord \$7 New, not U.S. \$6.**

**SWITCHBOARD CORD, 4.5 feet w/PL-47 plug #BD-96 \$1.50**



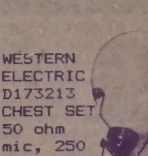
**H-113/U HEADSET 600 OHM SOFT PLASTIC EAR CUSHIONS 18" CORD w/PL-54 PLUG THAT FITS JK-26 JACK (SEE CD-307 EXTENSION CORD ELSEWHERE ON THIS PAGE) WT: 3LBS. USED-EX \$5.95**

**CW49505 HEADSET** like H-113 except black and has provision for snap-on CW-51071 lip mic listed below. Used-excellent \$4.95 **CW-51071 LIP MIC, 100 ohms impedance; snaps to CW49505 and plugs to CD-318. \$2.50 ea**

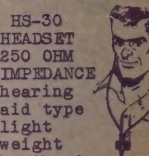


**H-63 HEADSET & BOOM MIC, 600 ohm receive & 100 ohm M51 mic elements; w/JJ-055 & 3-pin jacks. 3 lbs sh. Used, \$12 \$9.95**

**AN/GSA-6 CHEST GROUP, push-to-talk switch SA-142 & CX-1077 cable with U-77 plug connects H-63 with GRC radios. Includes canvas straps; 2 lbs. Used \$8.00 \$5.95**



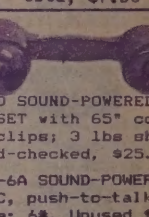
**WESTERN ELECTRIC D173213 CHEST SET 50 ohm mic, 250 ohm HS-30 headset, 7' cord w/PL-58 plug; 3 lbs. Unused, \$15.**



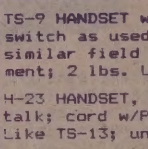
**HS-30 HEADSET 250 OHM IMPEDANCE hearing aid type light weight headband 7 1/2" cord w/spade lugs that wire into OD-604 or CD-605 cord for 4000 ohm Used, \$7.50**



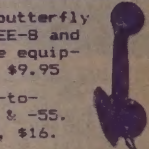
**TS-10 SOUND-POWERED HANDSET with 65" cord and clips; 3 lbs sh. Used-checked, \$25.**



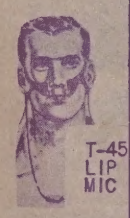
**#M-236-6A SOUND-POWERED CHEST MIC, push-to-talk, 18" cable; 6 1/2 lbs. Unused \$10.**



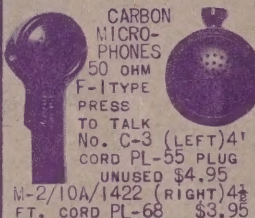
**TS-9 HANDSET with butterfly switch as used on EE-8 and similar field phone equipment; 2 lbs. Used, \$9.95**



**H-23 HANDSET, push-to-talk; cord w/PL-68 & -55. Like TS-13; unused, \$16.**



**T-45 LIP MIC**

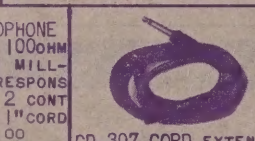


**CARBON MICROPHONES 50 OHM F-I-TYPE PRESS TO TALK No. C-3 (LEFT) 4' CORD PL-55 PLUG UNUSUED \$4.95 M-2/10A/1422 (RIGHT) 4 1/2 FT. CORD PL-68 \$3.95**



**T-30 THROAT MIC.**

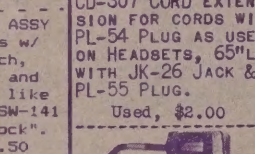
**T-45 MICROPHONE CARBON TYPE 100ohm 50DB BELOW 1 MILLIVOLT, FLAT RESPONSES WITH PL-291 2 CONT MALE PLUG, 11"CORD UNUSUED, \$3.00**



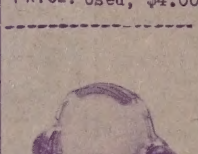
**CD-307 CORD EXTENSION FOR CORDS WITH PL-54 PLUG AS USED ON HEADSETS, 65"LG WITH JK-26 JACK & PL-55 PLUG. Used, \$2.00**

**T-30 MICROPHONE CARBON TYPE, 75 OHM 50DB BELOW 1 MILLIVOLT, FLAT RESPONSES WITH PL-291 2 CONT MALE PLUG, 11"CORD PRICE: Used, \$4.00**

**CD-508 CORD ASSY** for headsets w/SW-141 switch, PL-68 plug, and JK-48 jack; like CD-318 but SW-141 does not "lock". Unused, \$4.50

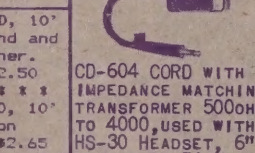


**CD-604 CORD WITH IMPEDANCE MATCHING TRANSFORMER 500OHM TO 4000, USED WITH HS-30 HEADSET, 6" CORD & PL-54 PLUG. UNUSUED \$1. Used 60¢**

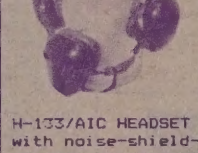


**H-113/AIC HEADSET** with noise-shielded mic; sound-powered set designed for aircraft inter communications. Has 24" cord with U-93A plug; David Clark mfg, 4 lbs. Used-checked, \$40. Less mic, \$27.50

**CX-2950 CORD, 10' PL-55 one end and PL-68 on other. UNUSUED, \$2.50**

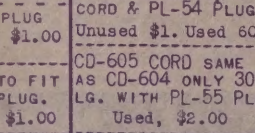


**CX-2951 CORD, 10' with PL-68 on both ends, \$2.65**

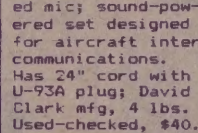


**CD-605 CORD SAME AS CD-604 ONLY 30" LG. WITH PL-55 PLG UNUSUED, \$2.00**

**JK-33 JACK TO FIT PL-68 MIC. PLUG. UNUSUED, 3 for \$1.00**



**PL-55 PHONE PLUG 30" CORD \$1.00**



**BLACK STANDARD TELEPHONE HANDSET & CORD, old style, UNUSUED \$5. Newer-style used \$3.00**

**SA-7C SOUND-POWER CHEST SET, push-to-talk switch & 18 ft cord. Comfortable 3.8" X 4.6" ear cushions; 5 lbs. Used, \$25.00**

**JK-34 PHONE JACK TO FIT PL-55 PLUG UNUSUED, 3 for \$1.**

**DOUBLE PLUG D178542** for headset; similar to type 289 and 298. Used, \$2.50

## PLANTRONICS HEADSET

**PLANTRONICS StarSet II** ultra-light OPERATOR'S HEADSET, improved contoured earpiece, 3-position volume integrated into amplifier plug, and SoundGuard protection from unexpected loud telephone line noise. Also coil cord with PJ-7 dual plug, set of six different sized earplugs, and carrying pouch; almond color. 3 lbs sh. #HS0308-1, NEW, \$44.95 \$35.

## CONTEMPRA PHONE

**Modern CONTEMPRA PHONE**, quality Northern Telecom manufactured with key pad, ringer, coil cord, and module jack. Low profile; looks sharp on desk or wall. Specify 1st-2nd-3rd color choice: Gold, yellow, brown, beige, almond, white, green, blue, red, and orange. Nice phones at a nice price "as removed from service." 6 lbs sh. #NE-CON-PH, complete-not checked, \$14. 2/\$25.

## STANDARD TELEPHONE EQUIP.

All of our standard telephone equipment is sold as "used-complete" only unless otherwise noted. Some adjustments may be required so that the equipment conforms to your local telephone company's system.

**CALL COMMANDER SWITCH-BOARDS, NE-634C-1** or similar with plug; gray, green, or beige colors: 11-line 1-hold \$22.95 \$14 17-line 1-hold \$28.95 \$16

**3-LINE 3-HOLD** AE 87 DESK PHONE 3-lines each with "hold" buttons; buzzer-type call signaler using 5823 tubes. With handset, coil cord, 5' cable w/terminal lugs, mount hardware; black, 6 lbs. Unused \$27.95 \$17.95

**OSLO TELEPHONE**, sleek European 1940's phone suggests Art-Deco period; can be used as desk phone or invert for wall mount. Rotary dial, ringer, and cord with terminal lug connections. Not FCC registered; 6 lbs sh. Used, \$14.95;

**EXTENSION BELLS**, ring by using 90 V 20 Hz ringer or handcrank generator. Usable in field & magneto phones. Checked: #HC-131, double coil-type p/o EE-8; 3" dia X 1.8"H, 1 lb sh. \$6.95 #VP-2-1, single coil p/o C-433-434 control; 2" dia X 1"H, \$5.95

**CD-318 PUSH-TO-TALK SWITCH** w/lock. Has 7' cable w/PL-68 plug, JK-26 jack, & straps. Use with T-30 throat or T-45 lip mics; 2 1/2 sh. Used, \$5.

**JEN-20 HANDSET w/AMPLIFIED receiver** for the hearing impaired; Black, white, or beige. NEW \$15.

**H-60 HANDSET f/TA-43-312 phones. Used \$14.**

**H-189 HANDSET f/PRC-25, VRC-12 Used \$12.**

**M-80 MICROPHONE** with U-229 plug. used \$10

**M-29 MICROPHONE** with U-77 plug. used \$5

**H-250 HANDSET w/U-229, used, \$15.**

**H-251 HEADSET w/U-229, used, \$14.**

**H-63 HEADSET & BOOM MIC used \$12.**

**H-91 HEAD & BOOM MIC w/U-77, \$14.**

**H-144 HEAD & BOOM MIC w/U-77, \$15.**

**H-161 HEAD & BOOM MIC w/U229, \$25.**

**H-182 HEAD & BOOM MIC w/U-77, \$18.**



SOLDERING STAND

**SOLDERING IRON STAND**  
handy item for the  
builder-hobbyist;  
has 2.6" x 5.3"  
cast iron base  
with sponge  
tray and 5"  
coil with in-  
sulating funnel; 3 lbs sh.  
#SS-IS-101, NEW, \$3.50

**RHODES 60 SEC  
TIMER**, times  
from 2 to 60  
seconds; bell  
signals time  
elapsed. 3"  
dia plastic  
case; 1 lb sh.  
#56414, NEW, \$2.50 each.

12 VDC COUNTER

**6-DIGIT MECH-  
ANICAL COUN-  
TER** 12 VDC non-  
resettable;  
black numerals  
on white. Rear  
mount flanges;  
o/a 1.3"x1.5"x2.5"D, 1#.  
#E07B10DC12, NEW, \$2.95

CANVAS

**BAGS, STRAPS  
AND COVERS,**  
MAY BE USED  
OR UNUSED. ALL ARE CLEAN  
WITHOUT TEARS. SHOULDER  
STRAPS ARE ADJUSTABLE AND  
MADE OF COTTON WEBBING.

**CW-216 ACCESSORY BAG**  
f/PRC-8-9-10; holds  
antennas & handset.  
O/a 19"x15"x5" (tapers  
to 3"W at bottom)  
x3.5" deep; w/snap  
cover and clip for  
ammo belt. Used, \$6.

**ST-120 BACKPACK HAR-  
NESS & M-1956 SUSPEND-  
ERS** f/PRC-8-9-10, \$8.

**CW-206 ROLL BAG** for MS-116  
-117-118 mast sections and  
related; snap and web strap  
closure. O/a 40" long x 3"  
high x5" deep. Used, \$7.50

**CW-187 ANTENNA ROLL BAG** for  
AB-21-22-23-24 masts. \$6.

**PRC-25/77 CANVAS**, used:  
ST-138 Radio Harness, \$12.  
CW-503 Accessory Bag, \$6.

**GRC/VRC EQUIPMENT COVERS:**  
CW-329 f/GRC-3--8, NEW \$8.  
CW-330 f/VRC8-9-10 NEW \$7.

**FIELD PHONE CANVAS CASES:**  
for EE-8 w/strap, used \$5.  
CY-1277 for TA-43/312, \$6.

BRAKE LIGHT

**AUTOMOBILE BRAKE  
LIGHT**, 5.5"W x  
2.8" H red lens  
on black plastic  
stand; top swivel ad-  
justs light angle.  
German mfg; o/a 7.5"H  
max, 2#. #BL-G10005, \$3.95

AUDIO

**AUDIO RECORD-  
ING TAPE** on  
7.5" plastic  
reels; 1 mil  
1800 ft. Ma-  
jor manufacturers; bulk e-  
rased. 2 lbs sh. #AST7586,  
Used, \$1.00 ea; 5 for \$4.

1820-2520 MHz



**LOCAL OSCILLATOR**  
w/6BM6 klystron in tunable  
reflex cavity; three probe  
coupled outputs; requires  
-300--600 V ref, -300--475  
V grid, -300 V beam, & 6.3  
VAC fil. 3-BNC conn & info;  
12x4x4, 5#. #OSC/R418, \$45.

**TIME-O-MATIC SIGN  
CONTROL**, 115 VAC  
60 Hz. THREE CON-  
TACTS RATED 15 AMP  
EACH. TWO ALTER-  
NATELY MAKE AND  
BREAK ONCE PER  
SECOND FOR 15 SEC;  
OTHER BREAKS FOR  
20 SEC. AT THE SAME  
TIME. THEN ALL THREE  
MAKE AND THE CYCLE REPEATS.  
SIZE: 3x5x6; SHPG. WT: 5  
LBS. #53 K-155, \$4.95

CARD SCANNER

**CREDIT CARD  
SCANNER**, uses  
optical sys-  
tem to read  
raised numbers  
of credit  
cards into a  
photo array. Small AC motor  
drives card through reader;  
w/connector diagram. 5x5x4,  
3 lbs. #ECR2020, used \$4.95

**HEAD MOUNT MASK**  
masks extraneous  
light during low  
light viewing of  
instruments--nice  
Halloween mask,  
too! Rigid rubber  
w/velcro adjusting  
straps. #5855-179-  
8583, unused, \$4.95

TX CHASSIS

**XMITER CHAS-  
SIS** for 2-12  
MHz range; p/o  
GRC-9 set de-  
scribed else-  
where but "de-  
militarized"  
by "vhack" on  
the tuning con-  
trol. Still a good  
source of quality switches,  
coils, and other RF parts.  
Less tubes and indicator;  
10.5x10.5x6.8, 18 lbs sh.  
#TX/GRC-9-D, "AS-IS", \$7.95

**12-DIGIT FLU-  
ORESCENT DIS-  
PLAY**, 3/8"  
digits 0 thru  
9, -,.,', and  
decimal point.  
Tubes 2"H plus IC's, trans-  
istors, etc. 9x8.5x2.5, 4  
lbs sh. #POS-2, \$6.95 \$3.50

**12-DIGIT FLUORESCENT DIS-  
PLAY**, 5/16"H characters,  
1-5/16"H DG-10A tubes; 21  
xistors, IC's, etc. 5.3x3.4  
3 lbs. #QP-3304, \$4. \$3.00

**INDUCTOR PC  
BOARD** has 3  
200 uH and 2  
1200 uH in-  
ductors 3/4"H  
x 1-3/8" dia;  
also 3/4000 mf 20 V, 3/3000  
mf 25 V axial caps, xistors  
etc. 3 lbs. #54-014535, \$2.

**TALLY OSCILLATOR** with fer-  
rite coils, 81.9-72.5-44.7-  
42.9-35.6-34.9-30.2 mH and  
39/ 50 V caps 0.001-0.47 mf  
and 9/2N365 xistors. \$2.00



**HONEYWELL HUMIDIFIER CON-  
TROL** as used on home humid-  
ifiers. Plastic element  
tape senses 10%-70% humid-  
ity and closes normally open  
120 VAC contacts depending  
on setting of variable con-  
trol. Shaft 1x1/4 dia; o/a 1x  
1 1/2x4 1/2. #H46B1150 NEW \$1.95

**THERMAL SWITCH** opens 30  
sec. after cooling. Operate  
130 vac. 2m ohm res. 1x1 1/2,  
20" leads. M-4199 \$1.50

HEATING ELEMENTS

**NICHROME 650 watt HEATER**  
WIRE-COIL, 8 ft long; 2 lbs.  
#NHC-650W, NEW, \$3.95

**BRYANT STRIP HEATING ELE-  
MENT**, 120 VAC 150 watts;  
1 1/2"W x 8"L including mount-  
ing flanges. 2 lbs sh.  
#c115-931-7883, NEW, \$2.95

**LOOP COIL TYPE**, 9" LONG;  
115 VAC 30 w. #83975, \$2.00

TIMER BONANZA

**CARTRI-  
VISION  
TIMER  
CONTROL**, part of  
early home  
video sys-  
tem; cheap  
gizmo with  
interesting parts: 115 VAC  
timer motor with upto 8 hr  
delay and SPDT contacts,  
18 V 200 ma transformer,  
12 VDC SPDT relay, SPDT and  
4PDT slide switches, etc.  
3.9x9.5x2, 2#. #CV-TC87, \$1

**LONG DURATION  
TIMER** with 115v  
RESET RELAY, 115v  
60 Hz 1/16 RPH  
MOTOR. CAM ACT-  
UATES SPDT MICRO SWITCH.  
3 1/2x2 1/2. UNUSED \$2.95

**ILLUMINATED  
CLOCK MECHAN-  
ISM** AS USED ON  
CLOCK RADIOS.  
CLEAR PLASTIC  
FRONT TO TRANSMIT LIGHT,  
NO HANDS. HAS 60 MIN TIMER  
ALSO HAS ON-OFF-AUTO ALARM  
2"SQ FACE. 115v 60 Hz.  
Unused, \$1.50 \$1.00; 5/44.

**SYNCHRON CLOCK  
MECHANISM**, No.610  
110 V. 60 CYCLE  
3 WATT 1 RPM #EC-  
129RB, WITH GEAR  
ASSY. NO RESET OR  
COVER. 2x2x2 1/2; 4oz. \$1.35

**TIMER ASSORTMENT**,  
5 various timing  
device; mixed volt  
ages, mixed speeds. \$2.50

**TX-RX CASE**  
LEATHER CASE for  
handheld transceiver;  
snap-flap for  
attaching to belt.  
Interior 8" deep x  
3"W top tapers to  
2.75"W bottom x  
1.5" thick; right-  
side cutaway for  
control access.  
Quality made in USA  
by Merzon; o/a 10.5"L, 2  
lbs. #19430217P11 NEW \$7.50

3" DIA  
0-360  
INDICA-  
TORS,  
usable  
for 3ST  
antenna position project.  
I-81, 5 marks, used \$8.95  
ID-637/ARN, 2 marks and  
VAR knob, unused, \$10.95

PARTS GALORE



**TELEMETER PROGRAM SELECTOR**  
part of an obsolete pay TV  
system which featured pre-  
recorded tape program re-  
view, coin deposit register  
mechanism, and audio ampli-  
fier-power supply with 4"  
speaker. Generates 8 Mhz  
signal to trigger mechanism  
and 35 Mhz video output.  
Tape magazine has recording  
head and plays 66' or 1"  
tape in continuous loop.  
Mechanism has 5 RPM Cramer  
115 VAC motor plus other  
motor, gears, etc.  
Power supply output 150 VDC  
100 ms and 6.3 V 3 amps.  
Tube line-up 3/608, 6BE6,  
6BA8, and 12BH7.  
Cabinet 15x7x7, 21 lbs sh.  
Our bargain price is worth  
the tape magazine, coin  
mechanism, power supply,  
or tubes alone. NEW, \$6.95

KEY ALARM

**ALARM CON-  
TROL PANEL**  
w/5-posi-  
tion key  
lock wafer switch, SC628  
Sonalert 6-28 V 3-14 ma, and  
five panel lights. 11.3x4x8  
2 lbs. #ALRM-SC628 w/key, \$7

205 MM

**COPY LENS** aper-  
tures F4.5 -5.6  
6.3-8-16 on mtg  
board. O.D. 3" x 3"; 2  
lbs sh. #AA-L205, used, \$8.



**1D-68/APA-44 AIR SPEED INDIC-  
ATOR**; CONTAINS A KOLLSMAN  
TRUE AIR SPEED METER AND A  
INDICATING WITH A RANGE OF  
84 TO 434 KNOTS. HAS OSTER  
MOTOR AV-240, RELAY, 1/6AK5  
TUBE, COMPENSATING DEVICE  
PLUS MANY OTHER COMPONENTS.  
15x7x5; 20 LBS. USED \$10

TENSION GAUGES

**PRECISION GAUGES** for  
measurement of tension  
or weight. NEW:  
#LP-36 SPRING  
SCALE, 36 oz x  
1/2 oz or 1 KG  
x 20 G scale;  
spring assem-  
bly 5.5"x1.5"  
O/a 14.3" long  
Chatillon. \$8.  
#68B SPRING ARM,  
center zero, left-  
right reading; 0-70 grams  
in 5 gm steps. Not stain-  
less; 6.1"x1.6"W. NEW \$8.

I-82 or MN-98  
RADIO COM-  
PASS INDIC-  
ATOR, 5"  
dia, 0-360°  
increments,  
and AY-54  
autosyn. Use  
in antenna posi-  
tion projects (see 9/79  
QST); 4 lbs sh. Used, \$22.

**MC-507 SELSYN-  
INDICATOR**,  
transmitter  
unit usable  
in wind di-  
rection and  
beam loca-  
tor systems.  
Has 3" dia  
0-360° scale  
5° steps; 12-24 VAC 60 Hz  
req. 2 lbs. \$8.95 2/\$15.

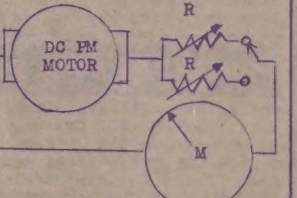
**I-91(\*) RADIO  
COMPASS INDICATOR**  
3" 360 deg. so.  
used w/ARN-6 sys.  
3"x3". (can be us-  
ed with wind  
direction system )  
used \$9.95

PILOT INDICATOR

**MG-2 PILOT'S  
INDICATOR** for  
bomb NAV-sys-  
tem. Separate  
scales 150-0-  
150° TURN and  
360-0-360°  
TIME TO GO.  
Two Sperry selsyns mounted  
in line; 24 V 400 Hz origi-  
nally but works on 12 V 60  
Hz with some response loss.  
10x3.8" dia, 4 lbs. \$15.95

WIND DIRECTION

**WIND DIRECTION INDICATOR**  
using 26 V 400 Hz 1 phase  
selsyn transmitters. De-  
sign wind vane and indica-  
tor for monitoring wind  
direction from indoors;  
(two required). #TX/SEL,  
Unused \$9 ea. Used, \$6 ea.

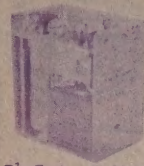


**WIND SPEED INDICATOR** using  
a 24 VDC PM motor as a  
generator, a 1 milliammeter  
and a resistor range scal-  
er so that wind speed can  
be monitored indoors. We  
will supply the PM motor  
and a 3 1/2" rd 0-1.0-50  
scale (FS-1ma) meter; you  
design the rest.  
#WS-MOTOR & METER, \$7.95

**AY-1 AUTOSYN  
MOTOR AS USED  
IN I-81, I-82  
ETC. DIRECT  
REPLACEMENT.**  
\$5.95  
I-81 & I-82 ARMATURES ONLY  
#3H2716/A1, UNUSED, \$3.95  
I-82 GLASS ONLY, \$2.00



## SMALL INVERTER SUPPLY



TRANSISTOR INVERTER POWER SUPPLY, input 24 VDC 500 ma; output 110 VDC 60 ma. Can be used to supply B4 for low power tube type receivers. Transformer has 286 VCT 70 ma secondary. Other uses possible with modification. Reduced output at lower input voltages. Schematic included.

3 1/2 x 3 x 2, 2 lbs sh. #522-1091-004, used-checked, \$9.95; used-defective \$4.95. DA-15S PLUG to fit above inverter, \$1.50 ea.

## MICROCOMPUTER SUPPLY

POWER SYSTEMS MICRO-COMPUTER SWITCHING POWER SUPPLY, made for one the "bigs" in the micro circus who quit the "show"; outputs +5 V 7 amp, +12 V 3 amp, -12 V



250 ma, +5 V 300 ma from 115/230 VAC 50/60 Hz input. Made in 1984 so is the very latest design for your micro or other project. 7.8x4.4x1.5, 2 lbs. #PS1558 NEW \$29.95, \$24.95



NORTH ELECTRIC MODULAR POWER SUPPLIES, stable solid-state units removed from equipment. All 115 VAC 60 Hz input; outputs -5% @ 40 centigrade. Appearance varies from picture; 20 lbs sh wt approx.

#N65006A 5.0 VDC 35 amps \$45.00  
#N11006A 6.0 VDC 3.5 amps \$12.00

ELECTRO MODEL 50 18-22 VDC 2 amps \$20 \$15  
PMC PXC-C-36 36 VDC 2.3 amps \$22 \$16

T-BAR #5000-M974 24 VDC 6 A rackmount, \$95.

SPERRY #4113281 SUPPLY, outputs +48 VDC 5.5 amps, +6 V 5 A, -12.5 V 2.5 A from 115/230 VAC in; rackmount, 45 lbs. Unused, \$50 \$35.

## 12-14.5 VDC SUPPLY



CB POWER SUPPLY, regulated 12-14.5 VDC 500 ma continuous; 1500 ma intermittent. With 6' AC cord and replacement On-Off switch.

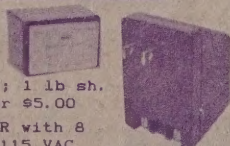
6x2x4, 2 lbs sh. #CB-PS-12, NEW, \$7.95

## POWER CONVERTERS

ASTEC DC - DC CONVERTER

ER designed for PC board mount; +5 VDC input produces -12 VDC 85 ma output. 1.2x1.5x1; 1 lb sh. #AA7210, \$2.95 ea; 2 for \$5.00

PLUG-IN WALL TRANSFORMER with 8 VAC 750 ma output from 115 VAC input; lug output connections. 1.5x2.5x1.5, 1 lb sh. Potrans #WP410608; \$1.95 ea; 2/\$3.



## POWER HEATSINK

POWER UNIT HEATSINK ASSEMBLY, 5.3x4.8x1.1 plate with three 2N3055's, two diodes, On-Off switch, and fuse; 3 lbs sh. #AE-HS-3T, used, \$2.95



TRANSFORMER & DIODE ASSEMBLY with Signal 24-4 transformer which has two 12 V 4 amp secondaries. Also two 200 V 40 A diodes, two 300 V 25 A SCR's, and a P&B 120 V 50-60 Hz DPDT relay w/10 A contacts. W/schematic. 10 1/2 x 3 1/2 x 3 1/2, 8 lbs. #ASI-M912VPS, \$12.95

## SANGAMO DC SUPPLY



SANGAMO DC POWER SUPPLY, output +5 VDC 2.5 amps and +12 VDC 250 ma from 115 VAC 60 Hz input; transformer-type. Modular-style chassis w/On-Off switch, fuse, and marked output terminals. 5.1x4.1x13.3, 9 lbs. #SANG-696515, used \$10.00



PP-68-B VIBRATOR SUPPLY, 100 to 110 VAC 60 Hz 15 or 50 watt output from 6 VDC 6/13 amp (15/50W) or 12 VDC 3/6.5 A input. With 66" cable. 9.8x11.3x8.8, 34 lbs. Unused, \$33.00 PP-68, older style, used-chkd \$23

## MRC-66 DC to DC SUPPLY

MRC-66 DC to DC SUPPLY has two separate DC to DC transistor inverters operated by 24 VDC input; Output "R" -70 V bias, +100 VDC 20 ma, and +200 VDC 100 ma. Output "T" +200 VDC 150 ma 70 VDC (isolated +, -) 75 ma, and 6 VAC 5 amps. Inverters in separate boxes which can be removed and used independently. Also has 24 VDC control relays, Reg-Ohm regulator for 6 VAC, locking cabinet with cover & key, plug, and schematic. 9 1/2 x 6 x 16, 21 lbs. \$22.00



## LAMBDA DC SUPPLIES



LAMBDA MODULAR POWER SUPPLIES, 105-125/210-250 VAC 47-63 Hz input; outputs +5% @ 40 C. Used-good cond: #LOS-7-5, 5 VDC 3 amp 4.8x4x2 3 lbs \$14.95

## 12/24 VDC 22/11 A



OPP-2 POWER SUPPLY, output 12 VDC 22 amps or 24 VDC 11 amps. With mains and load control and output mode indicator lights. Input: 90-130 VAC 60 Hz. Size: 11x16 1/2 x 10 1/2, 90 lb sh wt. Used, \$65.00 Now \$45.00

## DYNAMOTORS

DM-21CX used \$20	D-101 used \$97
DM-32 used \$40	DA-1 used \$12
re-new \$5.	DY-9 used \$9
DM-35 re-new \$20	DY-10 used \$14
DM-36 re-new \$7.	BD-83 re-new \$10
DM-53 used \$6.	PE-73 re-new \$30
DM-53 12 V \$7.	PE-86 re-new \$8.
DM-64 used \$10.	PE-94 re-new \$20
D-10A used \$5.	BD-69 re-new \$10
D-401 re-new \$8.	PE-133 used \$10

12 VDC DYNAMOTOR & FILTER BASE 21215A for RU-18 WW-2 aircraft receiver; 7.4x4.4x5.9, 10 lbs sh. #21215, unused, \$16.00

## 28 VDC SWITCHING SUPPLY



28 VDC 1.25 A SWITCHING POWER SUPPLY, also outputs +12 V 1.5 amp, +5 V 4 A, and -12 V 0.5 A; requires 115/230 VAC 50/60 Hz input. Not for RF applications. 5.5x10, 4 lbs. #PS-1466, \$19.95 \$14.95

## 5 VDC 28 AMP



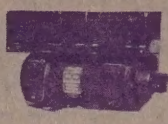
HEAVY DUTY SWITCHING POWER SUPPLY with "heavy duty" outputs +5 VDC 28 amps, +12 V 4 A, -12 V 1 A, and +24 V 1.5 A from 115 VAC 60 Hz input. Has On-Off switch, 3-prong input connection and 16-pin Molex output connector; removed from equipment. 2x5x13, 6 lbs. #SWPS-528, \$14.95

## SCR HEATSINK ASSY

SILICON RECTIFIER BRIDGE, single phase half-wave; GE #C14114CX5 or equivalent. Rating approx 500 V 35 amps. 7x6 1/2 x 5, 4 lbs sh. #KS-19576LL, used, \$8.95 \$4.95



## INVERTERS



JACK & HEINTZ INVERTER #AN-3533, input 27.5 VDC 37 amps. Output 115 VAC 400 Hz 500 VA, 3 phase voltage regulated. 16x9.5x6, 40 lbs sh. Used, \$40.00

## 12 VDC INVERTER

for compass indicator or selsyns; output 26 V 400 Hz 1/2. 2.6x7.8x5, 5# sh. #INV-SEL, unused, \$22.



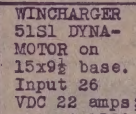
GE #SD21NJ3A INVERTER, INPUT: 27 VDC 35 amps OUTPUT: 115 VAC 400 Hz 1/2 485 watts. 8.5x5.8" dia; 15 lbs sh. Used, \$34.95

## MG-149H INVERTER

INPUT: 24 VDC 36 A. 750 VA. OUTPUT: 115 V. 400 CYCLE 1 PHASE 500 VA & 26 V. 400 CYCLE 1 PHASE 250 VA. SIZE: 12x8 1/2 x 8; WT: 25 LBS. PRICE: Used, \$45.00



INVERTER INPUT 27.5VDC 60A OUTPUT 115 V 400 CY 750 W 3 PHASE 26 V 400 CY 50 W 1 PHASE SIZE 11x10x6; WT: 40 LBS. LELAND#10285 USED \$34.95



WINCHARGER 51S1 DYNA-MOTOR on 15x9 1/2 base. Input 26 VDC 22 amps; output 1500 VDC 200 ma and 330 VDC 100 ma. 44 lbs sh. Used, \$20.

## DM-42

DM-42 DYNAMOTOR; INPUT: 12 VDC 39 AMPS. OUTPUT: 1030 AND 515 VDC @ 215 MA. 7x7x11; 42 LB. RECOND. \$15. #LV-DYN/T195, input 10 amps output 250 VDC 300 ma, -45 VDC 10 ma, and 115 VAC 30 VA 400 Hz. 8 1/2 x 3 d. \$25.

## HIGH VOLTAGE



ACE HIGH VOLTAGE POWER SUPPLY; OUTPUT: 3000 VDC 50 UA APPROX. INPUT: 115 V. 60 Hz. Uses TWO 1B3 RECTIFIER TUBES. WITH MOUNTING FLANGE. SIZE: 6x7x2; SHPG. WT: 8 LBS. UNUSED. #ACE-HV3000, \$5.95 SPECIAL!!! 3 for \$10.00

## DC CONVERTER



ADTECH DC to DC CONVERTER, 28 VDC input; outputs 5 V DC 10 amp & +/-15 VDC 2 amp. 2.3x4.8x10 5 lbs. #3DD5-15N NEW \$12.95

## PE-104 POWER CONVERTER

6 OR 12 VDC INPUT, OUTPUT 90 VDC, 1 1/2 VDC AND -45 VDC. SIZE: 4x4x7; WT: 10 LBS. NEW \$3.95 W/EXTRA VIB. \$4.95

## PP-855/PRC-14 VIBRATOR POWER

SUPPLY WITH FILTER NETWORK. 6 VOLTS DC INPUT, 5.35 AMP OUTPUT 135 VDC @ 155 MA. SIZE: 7 1/2 x 2 1/2 x 2 1/2; WT: 3 LBS. NEW \$4.95

## PP-1234/T

115/230 VAC POWER SUPPLY for URM-32 freq. meter; output 180 VDC 20 ma, 6.3 VAC 1.1 amp. Xformer 460 VCT 20 ma, 6.3 V 1.25 A.; Choke dual 20 Hy 20 ma. W/6X4 tube. 12x3 1/2 x 1 1/2 12 lbs sh wt. Used, \$14.95



PP-18 CONVERTER 12 VDC 4 amp to 24 VDC 1.5 amp; parallel for more current. With vibrator & plug; 6.5x5.5 x8.5, 10 lbs. UNUSED, \$5.95

## BLUE M OVEN



BLUE M BATCH OVEN, large 8 cubic feet capacity with Power-D-Matic 60° saturable reactor proportioning control system; temperature range 15°C ambient to 180°C. Oven interior 24"Hx24"Wx25"D. Units used in PC board testing and have removable 5x6 card rack installed for thirty "x14" cards. Also extra power control electronics, running time meter, and large 0-250°C West temperature meter. Requires 208 VAC 60 Hz 2.7 KVA 1 phase. 86x37x34, 300 lbs. #POM-5863BX, used \$695 \$550.

## SPEED CONTROL

WALL MOUNT SPEED CONTROL, solid-state unit designed to adjust speed of Miami-Carey ceiling fans is rated 120 V 60 Hz 3 amps. Use to vary speed of any motor of similar rating. Includes aluminum mounting plate for standard outlets, hardware, and wiring info. 1 lb sh. #MSCW/KIT, NEW, \$5.95





## TUBE SOCKETS

4X150 SOCKET PAIR f/  
T-195 xmitter modlr  
4x3x2, #T195/4X150  
Removed, \$12. \$10.

CERAMIC PLATE CAPS, cut-offs.  
5/8" Size, \$.75; 3/8", \$.60  
OCTAL TUBE SOCKET EXTENDER,  
plugs in to save wear-and-tear  
on your tube checker's octal  
socket; #1189, NEW \$1.75

U-102 OCTAL TEST SOCKET, test  
points for octal tubes; plugs  
into socket. #4578 NEW \$2.50

TUBE SOCKETS, used/unused:  
Octal-moulded/bakelite, ring  
mount or 2-hole mount, \$.40 ea  
Octal Ceramic, ring mount, \$.65  
Octal moulded, 2-hole, \$.45 ea  
Miniature 7- or 9-pin, moulded  
or bakelite \$.35; ceramic \$.60

OCTAL PLUG, mates to octal tube  
socket; shell cap w/side out-  
let. #83-CP8/3-17, NEW, \$1.25

JOHNSON CERAMIC SOCKETS  
#210 for 811-866, used, \$3.00  
#214 for 750TL/1500T, \$.50  
#234 for 715/718, \$.25  
#237 for 813, \$.50  
#244 for 8008, used, \$.25  
#247 for 829-832, used, \$.20

4X150/4CX250 sil-  
ver-plated socket  
w/chinney & 1100  
pf bypass capaci-  
tor. #122-215-2, used, \$18.00

TUBE SHIELDS for 7-9-pin mini-  
tubes (specify type), used \$.40

BLACK IERC-type SHIELDS f/ mini  
tubes; (Specify tube #) \$.85 ea

BLACK IERC-type SHIELD f/ large  
octal (6080-size) tube, \$1.50

SHIELD for 4-400A, used, \$6.00

TERMINAL BLOCKS--TELEPHONE TYPE  
#TT4X10F4A, 4 rows;  
ten terminals each;  
total 40. Size: 3.5x  
3x2. Unused, \$4.25

WE 2-rows 25-term; used \$2.

4X9865 40-term, flat mt. \$2.

879-9661 3 rows of 30 terminals  
one side wire wrap.  
Size 8-7/8x2-3/4x1-3/4 \$3.50  
AIRCRAFT STYLE TERMINAL STRIPS  
AN-3436-2-6 6 term. 4x7/8x11/16  
6-32 studs on 19/32 centers \$.55  
AN-3436-4-16/10 term. 12x1x1  
10-32 studs on 3/4 centers \$1.25

5BK-22 BOX Consists of 3 AN-3436  
terminal strips 13 term. each &  
2 AN-3436 9 term. ea. The 10/32  
studs extend thru. the phenolic  
board and have solder terminals.  
Board size 5x8x2; 4lbs \$2.75

## RF TAP SWITCH

5-POSITION CERAMIC  
TAP SWITCH for 100 W  
#NW-2 transmitter;  
2.3x2.3x1.8, 1.1b sh.  
#379605 unused, \$3.95  
10/#32 100/#265.

TERMINAL  
STRIPS WITH  
CLIPPED WIRE

BARRIER TERM. STRIPS AVAILABLE,  
3/4, 1 & 1 1/2" WIDTHS, 2 to 16 TERM  
INALS. Two TERMINAL 20¢ EA. EACH  
ADDITIONAL TERMINAL 3¢. WE WILL  
SHIP CLOSEST TO YOUR ORDER.

HEAVY DUTY TER-  
MINAL STRIPS.  
APPROX. 2" Wx1 1/2 D.

8 " 6 " 2.00 SCREW DOWN  
12 " 8 1/2 " 3.00 HOLDER TYPE \$4

## Capacitors

CENTRALAB 850-  
SERIES high  
voltage "door-  
knob" capaci-  
tors, 0.5" H x  
0.75" dia; Used, \$.35 ea  
Specify: 10, 50, or 95 pf  
(7.5 KV) or 100 pf (5 KV).

TYPE 858, 1000 pf 5 KV, \$.6.  
TYPE 857, 50 pf 15 KV, \$.4.

MICA CAPACI- MFD WVDC CM  
TORS used .02 600 55  
in RF power .01 1200  
circuits. .022 1200 60  
JAN CM-size .005 1200  
less than .0062 1200 55  
1.8"x1.6". .0004 2500 55  
used, \$1.25 35 pf 3500 60

CM65 .002 mf 3500 WVDC, \$2.

FIL-size MICA, 2.8x1.5x1:  
0.006 mf 2500 WVDC, \$4.00  
0.0001 mf 3000 WVDC, \$.4.  
0.001 mf 3000 WVDC, \$.4.50

F2L-Size MICA, 3x1.8x1.3:  
0.0006 mf 2500 WVDC, \$4.25  
0.00007 mf 3000 WVDC, \$.3.  
0.0001 mf 3000 WVDC, \$.50  
0.00022 mf 5000 WVDC, \$.5.  
0.002 mf 5000 WVDC, \$.6.00

F3L-size, 0.004 mf 8000  
WVDC, 3 lbs sh. NEW, \$12.

## COMPUTER GRADE

MFD	VDC	SIZE	PRICE
23000	7	5 1/2 x 1 1/2	.60
		Bank of five 2.25	
61000	10	4 1/2 x 2 1/2	1.50
150000	10	5 1/2 x 3	3.25
28000	15	4 1/2 x 2	2.00**
5200	20	3 1/2 x 1 3/8	1.25**
40000	20	4 1/2 x 2 1/2	2.75**
52000	20	6 x 3	2.85**
18000	25	4 1/2 x 2	2.00**
16500	30	4 1/2 x 3	2.00
25000	30	4 1/2 x 3	2.25
54000	30	6 x 3	4.00**
18000	35	4 x 3	2.50
25000	35	4 x 2 1/2	2.75
37500	35	6 x 3	3.75
9400	40	4 1/2 x 1 1/2	2.00
51000	40	5 1/2 x 2 1/2	4.15

20000	55	5.75x3	3.25
1000	50	3x1 1/2	1.20**
23200	50	4x3	3.25**
3500	55	4x3	2.00**
11000	60	4x2.5	2.65
58000	20	6x3	2.20**
950	75	4x3	2.00

5200	200	6x3	7.50
1400	99	4x2 dents	1.00**
2700	300	5 1/2 x 2 1/2	5.00**
900	165	4x2 dents	1.00**
1250	180	4 1/2 x 2 1/2	3.00**
500	200	4x2 NEW	2.25
500	200	5 1/2 x 3	1.00**
1700	200	5 1/2 x 3	3.80

\*\* marked, take 25% OFF!

800 MF 250 VDC, 3.3x2, \$.3.  
10 for \$24. 20 for \$40.

8 MF 4 KV DC  
case ground,  
non-PCB; 8.3  
x3.5x2, 4#.  
#CDE-LPC212,  
Unused \$10.

MOTOR-RUN  
CAPACITOR,  
50-60 mfd;  
330 VAC

plastic en-  
closed electrolytic; 4.4x2"  
dia. #HSP-77225, \$2.25 ea

PHOTO-FLASH CAPACITOR, 750  
mf 330 VDC; 2"x1.2" dia.  
NEW \$2.25 ea; 5 for \$9.

## ROTARY SWITCHES

1-POLE 17-POSITION, 2 1/2" dia  
bakelite; 3/8x1 1/2" dia shaft.  
CRL #PA3001 NEW \$1.95; 2/\$3

ROTARY SWITCH, 2-DECK. ONE  
4PDT MOMENTARY BOTH SIDES;  
AND OTHER 2PDT MOM. B.S. AND  
1PST MOM. 1-3/8" DIA.; CER-  
AMIC. #329825-20, \$1.00  
MINI-ROTARY, 1-pole 3-pos.  
shorting. 1" dia; 1/8" dia  
shaft. No hardware.  
#LED-M13-S, unused, 75¢

THUMB-WHEEL WAFER  
SWITCH, 18 POSIT-  
ION, NUMBERED, 2  
HOLE MTG. HORIZON-  
TAL OR VERTICAL,  
2 1/2 x 3/8" # 960 NEW \$1.25  
SAME AS ABOVE 10 POSITION  
2 1/2 x 3/8" # 980 NEW \$.75

2-DECK 5-POS w/OFF-ON swi-  
tch 2/SPST 8 A 125 V. 2 1/2 x  
1 1/2, 1/2" d shaft. #2D5PSW \$3.

MALLOY NON-SHORTING TYPES:  
#3284J 3-circuit 4-pos \$1.  
#3243J 4-ckt, 3-pos., \$1.10

2-DIGIT THUMB SWITCH  
00 to 99; can be mod-  
ified to 99 but one  
digit has 1-pole 10  
pos wafer, other binary  
code output. Digitran Serie  
23000; 1 1/2 x 1 1/2. NEW \$1.75

Rotary switch one deck 17-  
position, one tie deck. 1 1/2"  
x1. silver pl. SW-249 \$2

CERAMIC 2-pole 4-position;  
1-5/8" dia, 1"x1/4" dia  
shaft. #SW-1064-4 NEW \$2.25

## DAVEN SWITCH

18-POSITION, CON-  
TINUOUS TURN, 2"  
dia. Zinc-silver  
contacts. 1 1/2" dia  
shaft. #329825-92.2  
Unused, \$3.00

Miniature tap switch 1 pole  
7-position rated 1 amp.  
1x1 1/2". Grayhill 7 pos. \$2.00

FIVE-DECK ROTARY SWITCH,  
each 2-pole 4-pos; bake-  
4x1.6" dia; shaft 1/2x1/4"  
dia. #SW/RM39, used, \$1.25

CERAMIC 2-deck 8-position;  
1-3/8" dia wafers. Shaft  
1/4" dia. #383-5447, \$2.50

CERAMIC 1-deck 11 position  
1-3/8" dia wafers; 1/4" dia  
shaft. #SW112/TV2, used, \$.3.

BAKELITE 1-DECK 1-POLE 10-  
POSITION w/stop, 1-3/8" dia  
wafer; #1110-3713 NEW \$1.25

DUAL CONTROL SWITCH, 1/2" dia  
outer shaft switches 1-pole  
4-position rotary; 1/8" dia  
inner shaft adjusts 50K ohm  
pot w/on-off. #3540 NEW \$2.

ANTENNA CIRCUIT SWITCH  
100 WATT  
3/MAKE  
3/BRE AK  
Size:  
4x2 1/2 IN.  
#379626  
\$2.50

RESISTOR PAIRS  
on brackets;  
rating/size f/  
each resistor:  
0.2 ohm 100 W 6x1, 2# \$3/pr

EDGEWOUND RIBBON RESISTOR,  
0.67 500 W; 11x2, 3# \$8.

U-106 TERMINAL  
BINDING POSTS,  
"push" spring-  
loaded type;  
silver-plated.  
Threaded 1";  
o/a 1.9". Used \$1 ea.

## Parts Kits

HARDWARE ASSORTMENT  
from electronic eq-  
uipment such as  
washers, screws, ri-  
vets, nuts, termi-  
nals; 2 lbs \$2.00

MICA  
CONDENSERS  
25 ASST.  
10 MAFD To  
6800 MAFD.  
\$1.00 a KIT

COMPUTER GRADE  
CAPACITOR ASST. 10  
capacitors ranging  
5 to 30 VDC & 1000  
to 50000 mf; used.  
10 lbs sh. \$4.00

PRECISION  
RESISTORS  
25 asst. on  
boards. Car-  
bon or wire  
wound 1%  
\$1.50/kit

RESISTORS  
WIREWOUND  
25 ASST.

5 to 20  
Watt Wide  
range of values some  
tapped. 25 ASST \$1.00

VOLUME  
CONTROLS  
10 ASST.  
Popular  
Values  
\$1.00

TERMINAL  
WUGS, ring  
spade, crimp  
types. Wide  
variety of  
sizes for all uses in  
plastic box,  
APPROX. 200 PCS. \$2.00

ROTARY WAFER SWITCH  
six different types  
Multi-decks and  
contacts \$1.25

RESISTORS  
25 W 4 ohm Slider +  
4A fixed; 4x0.6 \$.75  
100 W 1A tapped 0.2-  
0.4-0.4, 6x1.3 \$1.75

100 watt 750 ohms,  
6.5x1.3" dia, \$1.25  
110 watt 10 ohms,  
8x1.3" dia, \$1.50  
145 watt 80000 ohms,  
12x1.2; used, \$1.50  
166 watt 200 ohms,  
12"x1.3" dia, \$1.75  
200 watt 5000 ohms,  
10.5x1.2", \$1.75  
200 W 2A SLIDER ad-  
just, 10.5x1.3, \$.3.

Clip-Mount POWER RES-  
ISTORS, 90 W 7.5" Lx  
1" dia. \$1.50 ea:  
800, 10K, or 16K.  
35K non-induct, \$.3

120 W 7000 ohms 9.5x  
1.3" dia, \$1.75 ea  
140W 11 11.5x1.2 \$2

MOUNTING CLIPS for  
above resistors; 1" H  
ceramic insulators.  
#CL-RES, \$2.50/pr.

450 WATT 301 OHM  
5X, glass; 13.1" Lx  
1.3" dia. #3352, \$7.

18-POS 1-POLE NON-SHORTING  
SWITCH w/external auxiliary  
3 amp low-voltage contacts  
that "make" 1/180° of ro-  
tation. 2.3x1.8x1.6, 1/4"  
dia shaft. #258-5352, \$3.00

THREE DECK 7-POSITION TAP  
SWITCH w/screw terminals;  
10 amp shorting contacts.  
1.8x2x3.1 + 1.3"x0.3" dia  
shaft. #ES32303LM, \$3.50

WESTON G-1 VOLTMETER SWITCH  
1-deck 9-pos w/silver-plate  
non-shorting contacts. Ro-  
tates 360° non-stop. Phenol-  
ic w/knob #SW-G1 NEW \$2.50

## ELECTROLYTIC (E)/PAPER (P)

6800uf 16 V axial (E) 4/\$1  
450 uf 25 VDC (E) 50¢ 5/\$2  
10000 mf 35 V axial (E) \$.50  
1500 uf 63 V axial (E) 75¢  
50-30 uf 150 V (P), 2/\$1.  
30-30-15 mf 150 V (E) \$.65  
80-40-20 uf 150 V (P) 2/\$1  
250uf 150 V axial (E) 2/\$1  
25-25 uf 200 V (E), 45¢  
60 uf 250 VDC (P), \$.75 ea  
160 uf 250 VDC (P), \$1.10  
160-240-240 uf 200 V \$1.65  
50 mf 350 VDC axial, \$.75  
40 mf 450 VDC (P), \$.65 ea  
20-20-20-20 mf 450 V (E),  
3"x1.3" dia; NEW, \$1.50 ea

MYLAR AXIAL CAPACITORS:  
0.01 mf 200 VDC, 4/\$1.00  
0.33 mf 400 VDC, 3/\$1.00

1 KV DISCS: 7/8". 100/\$6.  
UF .0001 .0002 .002 .0056  
TANTALUMS, 35 VDC PCB-type:  
4.7 or 6.8 uf 4/\$1 10/\$20  
40 uf 25 V, 2x3/8, 2/\$1.  
47 uf 20 V, 1/2x1, 45¢

## RESISTORS

3/5 W, 20¢ EA; 10/25 W, 30¢  
0.5 " 10 " "  
2.0 " 10 " "  
2.43 " 3 " "  
10 " 8 " " 30¢  
34 " 5 " "  
35 " 5 " "  
100 " 5 " "

## BLEEDER RESISTORS

0.33 ohm 25 watt "  
1000 " 25 " " WW  
15K " 10 " " "  
15K " 3 " " "  
25 " 25 " "

1.6 ohm 220 W, 5¢, \$1.50  
0.05 " 105 W, 5¢, 4x1, \$1.

## PRECISION RESISTORS

100K ohm 0.33 W 0.1%, \$.40  
7.5K ohms, 0.333 WATT,  
0.25%, WIREWOUND, 40¢ EA.  
28K ohms 1/2 WATT, 0.05%,  
WIREWOUND, 40¢ EA.  
999 MEGOHMS, 10 Watt 1X,  
6.3"Lx0.3" dia, \$1.25 ea  
DALE PRECISION POWER RES.  
100 WATT 1400 ohms 1X;  
3.5x3x1.8, 1 lbs., \$2.50  
250 WATT 43 ohms 1X; 4.5x3  
2.3 (RH-250), 2 lbs, \$3.  
10K125 W KOOLOHM 3x3/4 \$4.20

3K 25 W 1X Silicohe, \$.75  
51K ohms 2 W 0.1X, \$.60 ea  
10 Megohm 2 Watt 1X, \$.65

SLIDER 50 W 500 ohm, \$1.00  
228 W 1.8A, 10.5x1.6, \$2.50  
220W 30A SLIDER 10.3x1.3 \$2

SLIDER VARIABLE WW RESISTOR  
15 ohm 35 watt, 10¢, \$1.00  
10 ohm 75 watt Ohmite \$1.50

MINIMUM ORDER \$5.00



## HIGH VOLTAGE TRANSFORMERS

PRI HZ SECONDARY SIZE WT STOCK # PRICE  
117V 60Hz 375V 40MA 2/6.3 .6A 22x4x2 14LB #24003 \$3.95  
105/115/125 780 VCT 65 ma 5x5x4 15 #A3499 \$5.95  
200/225/250 60 Hz 6.3 VCT 4 A, 5 V 2 A  
115 60 350 CT/26 MA 2x3x3 4 647-6762 3.95  
5/3.0 A

115/60 620 VCT 140 ma 4/1x5x4.9 14# #T1/620 \$7.95  
230 5 V 3 amp, 6.3 V 6 amp  
115 60 375 VCT 90 ma 5x4.3x3.8 10# #1RX03YY/141 \$9.  
two 2.5 V 10 A, 5 V 2 A, 6.3 VCT 10 A  
115 60 780 VCT 180 ma 3.6x4.6x3.5 9# #T44925 \$8.95  
5 V 2 amp, 6.3 V 2 A  
115 60 289 V 200 ma 5.5x4.6x4 14# #PB146/510 \$8.95  
207 V 125 ma, 5.3 V 1.4 A, 6.3 V 9 A

115 60 670 VCT 70 ma 4.5x3.3x3 6# #PSC-70 \$6.95  
5 V 2 amp, 6.3 VCT 3 amp  
115 60 900 VCT 105 ma 3.7x5.3x4.1 8# #PCR-105, \$8.  
5 V 2 amp, 6.3 VCT 3.5 A

115 60 1000 VCT 220 ma 5x4x4 20 #T1/610 \$10.95  
2.5 VCT 5 A, 5 VCT 3 A (1750 V insul)  
120 60 6.4/1A 3/6.4 .3A 2x3x2 1 645-0612 2.25  
115 60 280 VCT 75 ma 4.5x3.8x4.6 14# #8787 \$6.95  
13.5 V tapped 1.5 V 1.2 amp, 5 VCT 3 A  
115/60Hz 360V TAPS/7/332/346V, 125MA 228V.015  
6.6VCT 4.2A 4x5x3 12LBS. #7489394 \$3.95

115 60 610 VCT 50 ma 3.1x4x2.8, 5# #803901, \$5.95  
5 V 2 amp, 6.3 V 2.3 A, 6.3 V 0.9 A

115/230 600 VCT 200 ma 4.5x5.3x3.5 10# #T103/C292 \$8.  
6.4 V 1.85 amp, 5 V 2 amp  
115 60 342 VCT 350 ma 3.5x4.8x4.1 11# #PL-T216 \$10.  
300 VCT 1.15 A intermittent

105-125/ 1000 VCT 250 ma 8x8x6 23# #T1/CV157, \$14.  
210-250 400 VCT 30 ma, 6.3 VCT 16.5 A, 6.3 V 2.5  
115 60 500 VCT 10 ma 2.5x3x2.3 3# #PHC-10, \$3.95  
6.3 V 0.6A, 6.3 V 1.2 A

115 60 600 VCT 40 ma 2.5x3.1x3.4 4# #T101/ME26 \$5.95  
6.3 V 2.5 amp, 6.3 V 1.2 A

115 60 565 VCT 120 ma 4.8x4.2x3.8 8# #6E8681 \$7.95  
115 60 570 VCT 40 ma 3.5x3x2.8 5# #T1/TA182 \$4.95  
1220 VCT 65 ma int, 6.3 V 3 amp

115 60 600 VCT 150 ma 5x4.5x3.8 10 #MB1281 \$5.95  
500 VCT 100 ma, 6.3 VCT 7 amp  
115 60 2000 VCT 500 ma 7x5.5x5.5 32# #S-P244 \$39.50  
(1500 WV, 700 ma intermittent)

115/230 60 600 VCT 60 ma 4.3x3.5x3.8 #T1/T6-34 \$6.95  
6.3 V 5 A

## LOW VOLTAGE TRANSFORMERS

PRI HZ SECONDARY SIZE WT STOCK # PRICE  
115V 60Hz 6V/1A 45VCT/.5A 3x2x2 2LB #1461312 \$2.95  
220/440 60 three 2.5 V 5 A 6x7x4.5 13# #U8370 \$8.  
2.5 V 15 A, 3 KV test

115 60 12 to 29.7 V 3.5x4x4.2 11# Stancor RT-206 \$12.  
(24/11.5 VDC 6/12 amp choke input)

115 60 Two 2.5 V 6 A 3.6x4.5x3.2 8# #FIL-T216 \$8.95  
12.6 VCT 6 amp

115 60 5 VCT 14.5 A 3.6x5.5x4.3 11# #T1/T368 \$10.  
26.5 VCT 500 ma, 6.3 VCT 2.5 amp

220V 60Hz 2.5VCT 3 4x3x3 9 THER-8708 \$3.95  
5vct @ 3a

115 60 6.5 VCT 11 A, 4x6x3 16 #FT2550 \$8.95  
6.5 VCT 6.2 A, 5.2 VCT 4.4 A, 6.5 V 7.8 A

115 60 24 VCT 50 VA 2x3x2 3 #BELL269001 \$5.50  
115 50-400 34/2.7 A 4x4x4 14 853-6026 \$4.50  
3.0/250 MA

115 50/60 5 @ 1.5 A RD.4x2 6 869-2849 \$4.95  
5 @ 1.0 A

115 60 2.5 VCT 10 A (10 KV) 3x5.3x3.3 6# #T2/610 \$6.  
117 60 31V@3.27A, 15.5V 3x4x4 10 5950-9195 \$3.95  
5.1A, 23VCT@2.1A.  
24V @ .85 A

215 V 60 Hz 2.5 VCT 10 A.; 4x3x3 12, #2253 \$2.95

## 5000 VCT 325 MA

Pri: 115 VAC 60 Hz  
Sec: 5000 VCT 325  
ma, 7 KV rms test  
7.5x9.5x6.5, 80#.  
#T402/AM2353, \$45.

Pri: 115V50/60Hz  
Sec: 1860Vct @  
150 ma. 1500 WV  
5x4x4 18 lb  
SMB202-909 \$15

Pri: 115/230 VAC  
Sec: 480 VCT 95 ma  
480 VCT 75 ma  
6.3 V 3 ampe  
3.3x5x3.5, 10 lbs  
#T1/CV542, \$8.95

Pri: 120 VAC 60 Hz  
Sec: 2000 VAC 125  
UA, 400 VCT 25 ma  
6.3 V 1.2 amp, 26  
V 400 ma. 3.5x4.3  
x3.3, 6 lbs sh.  
#T101/CP95, \$5.95

## POWER SUPPLY TYPE 115 VAC 60 Hz primaries Unused

#BELL2696: 18 V 1.5  
amp, 19 V 2.5 A,  
10 V 4 A; 3x4x3, 7  
lbs sh. \$4.95  
10 for \$45.00

#PT-09: 48 VCT 2.5  
amps; 3x3x3, 6  
lbs sh. \$5.95

#SR-448: 36 VCT 2  
amps; 3.5x2.9x2.3,  
3 lbs. Used \$4.95

#TRA-1577: 15 VCT 3  
amp, 5 V 1 A. 2x3x3  
x2, 4 lbs. \$3.95

#EMC-56: 50 VCT 3A  
3x3x3, 8 lbs.  
\$5.95 ea; 10/\$54.

10V. 15 A

Pri: 220 VAC 60Hz  
Sec: 10 VCT 75A.  
Requires 6 mfd  
capacitor 660 AC  
6x4x4 24 lbs.  
#NB6114781 \$18.95

Pri: 105-130 VAC  
Sec: 600 VCT 80 ma  
6.3 V 3 amp, 5 V  
2 A. 4.1x3.5x4.6;  
10 lbs. #193-8636,  
unused, \$6.95

FOR RA-62 RECTIF.  
USED TO POWER  
SCR-522 REC-TRANS  
PRI: 110/220 VOLT  
40-60 CYCLE  
SEC: DC VOLTAGES  
300 @ 230 MA  
BIAS 150 @ 8"  
13.4 @ 3.9 A.  
5x5x8: 30 lbs.  
#3340-296-862-192  
PRICE: \$7.95

Pri: 115 V 60 Hz  
Sec: 117 V 20 ma,  
6.3 V 700 ma; 2x  
2.5x1.6, 2 lbs sh  
#26R32, NEW, \$3.

115 VAC  
60 Hz  
primary  
2240 V  
CT 245  
MA 3940  
WV sec.  
7.5x5x6.3; 35 lbs.  
#SMB202-907, \$20.

#SMB-202912, 448 V  
CT 20 ma; 2x3x2  
3 lbs. Used \$2.50

Pri: 115 V 60 Hz  
Sec: 117 V 20 ma,  
6.3 V 700 ma; 2x  
2.5x1.6, 2 lbs sh  
#26R32, NEW, \$3.

100 WATT  
MODULATION  
TRANSFORMER  
PRI: 7500 OHM CT  
30,000"  
SEC: 3000 OHM  
35W 200 MADC  
600 CT. 1 W  
RMS TEST  
1, 2, 3 500 v.  
OTHERS 2500 v.  
200-3500 CPS.  
4x4x4 11LBS  
#5950-646-3092  
PRICE: \$4.95

T-368 MODULATION  
PRI: 20000 ohm CT  
Sec: 9100A 275 ma  
250 W; used with  
two 4-125A. 6x  
5.3x4.6, 28 lbs.  
#T5/368, \$17.50

## TRANSFORMERS LISTED BELOW HAVE 115 VOLT 60 HZ PRIMARIES UNLESS OTHERWISE STATED

Sec: 18 V 5.4 A, 28 V  
1 A, 6 V 900 ma, 25 V  
500 ma, 35-10-0-10-35  
V 5 A. 4x4x4, 16 lb  
#401-21 unused \$8.95

Sec: 40V 2.5A/6.3V 1.5A  
3x3x3 10 LBS.  
#43278 \$4.95

Sec: 250 V tapped 50  
V 120 ma, 4 KV test.  
4x6x3, 9 lbs sh.  
#BP-18587 used \$6.95

Sec: 30 vct 560 ma 40  
vct 450 ma 2x2x2 2  
lbs. #401-6 \$3.00

Sec: 450 VCT 250 MA.  
40. VCT 1 A. 2/6V 1A.  
SIZE: 3x3x4 9 LBS.  
URC#702-704-00 \$6.95

Pri: 230 VAC 60 Hz  
Sec: 375 VCT 50 ma,  
6.3 V 2 A; 2.5x3x2.6  
3# #8316527, \$2.50

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire leads  
Removed f/  
Sun power  
supplies:  
SUN #700-  
91432, 14  
VCT 7.5 A  
two 30 VCT 2.5 A, 30  
VCT 1.2 A, 50 VCT 2  
A, 12 V 2 A 54 V 2 A  
6.3 V 2 A; 4.5x5.8  
x5.5, 13 lbs. \$7.50  
SUN #778392, 36 VCT 4  
A, 11 V 15 A, 30 V 2  
A, 19 V 2 A; 4x5.3  
x4.8, 15 lbs. \$7.95

115 VAC 60  
Hz primary;  
wire



# TRANSFORMERS

## 40 VCT 9 A

Pri: 100/115 VAC  
Sec: 40 VCT 9 amp,  
22 V 18 amps.  
5x6x6, 32 lbs.  
#7213-4112, \$15.  
As above, but sec  
39.8 VCT 8.5 A,  
22.7 V 12 amps.  
#5602-1500, \$12.

## 115 V 60 HZ

Pri: 115 V 60 HZ  
Sec: 15 V 3 AMPS;  
13 V 2 A;  
6.3 V 7 A.  
WITH CAPACITOR,  
4x3x3, 13 LBS.  
#PV-175-9, \$4.95

## AUDIO

STANCOR audio NEW:  
#A3837, pri 500-  
500 ohm; sec 0.06  
to 48 ohm 15 watt  
2.9x2.4x2, #2 \$4.  
#A8085, pri 70.7 V  
line 156/312/625/  
1250 ohm; sec 8  
4/2/1/0.5 W. 2.8x  
1.6x1.4, 2# \$2.95  
#A8089, same as  
#A8085 except for  
25 V line, \$3.00

Pri: 600 ohms  
Sec: 8 ohms 2 W  
1.6"x1.3" dia  
#T1/LS166, \$7.50

Pri: 250/4000 ohm  
Sec: 160, 600A CT  
400-3000 Hz; 12x  
12x2, 2 lbs sh.  
#C-280/RM-39 \$3.

Pri: 25000 ohms  
Sec: 4 ohms; 5  
watt. 1.4x2.4  
x1.4, 1 lb. Stan-  
cor #A-3327, \$3.

Pri 20K/CT/30K/CT  
Sec: 1000A split,  
1500 ohm split.  
1/2"x1/4" dia. UTC  
#DO-T39, NEW, \$4.

Pri: 7000 ohms  
Sec: 4000 ohms tap-  
ped 250 ohms; 200-  
8000 Hz. 1x2x1, 1  
lb. #247-9266 \$2.

Pri: 10000 ohms  
Sec: 600 ohms CT  
1 W; p/o R-390A.  
1.5x2.1x1.5, 1 lb  
sh. #AF/390A, \$5.

Pri: 4300 ohm CT  
Sec: 500 ohm CT &  
43 ohm CT, 10 W.  
2.8x4x2.8, 4 lbs  
#189-3742, \$5.95

Pri CT to match 5K  
ohm PP 2A3 plates;  
sec 9K CT to match  
PP 100TH grids (B)  
3.5x3.1x2.5, 4# sh  
#55BQ30, used, \$6.

INTERCOM AUDIO  
Pri: 45-50 ohms  
Sec: 3-4/6-8 ohms  
8 watts. 2x1.5  
x1.5, 1 lb. Stan-  
cor #AB091, \$3.50

INPUT TRANSFORMER  
Pri: 150 ohms CT  
Sec: 150,000 ohms  
100-8000 Hz 1.5mw  
2x1-7/8 dia, 1  
lb. #5535, \$3.50

## 1-177 TUBE CHECKER TRANSFORMER

SIZE: 4x4x4 5 LB  
STK. # 279613.667  
PRICE: \$4.95

## PRI: 26/115/230 V 60 HZ.

SEC: 13 V. 8 AMPS  
TWO 230V WINDINGS  
TO SUPPLY 370 VDC  
600 MA.  
5x5x5; 22 LBS.  
279613.514 \$7.95

Pri: 115 V 60 HZ  
Sec: 6.3 VCT 2.5  
amp, 2.5x4.8x2.5  
4#. #T7/368, \$4.

## ALL PRIMARIES 115 VOLTS 60 CYCLE

Sec: 6V. @ 500 MA.  
1x1x1; 3 oz.  
URC#1378648 \$1.25

Sec: 6.3 V. 1 amp  
1x1x1; 4 oz.  
BE16073-001 \$1.50

Sec: 6.3 VCT 2 amp  
2x2x1, 1 lb.  
Stancor P-2945 \$3.

Sec: 2/30 V. 250 MA  
2x1x1; 4 oz.  
URC#60605 \$1.50

Sec: 6.3 VCT 1.5 A  
2x2x2, 1 lb sh.  
#F-16X, NEW \$1.95

Sec: 12 V 2 amps  
2x2x1, 1 lb sh.  
#37-7622 NEW \$2.25

AUDIO BANDPASS  
2320 Hz peak, 1285-  
4200 Hz Band Width:  
Pri 600/250 ohms  
Sec: 120000 ohms  
2x2x4, 4 lbs sh.  
#321892-19, \$4.95

MIC TRANSFORMER  
Pri: 50 ohms 30 ma  
Sec: 500 ohms, 400  
to 1900 Hz. 1x1x1  
x1, 1 lbs sh.  
#T204/FP-115 \$2.00

Pri: 500 ohms CT  
Sec: 500 ohms CT,  
600-12000 Hz; 2x2x2  
x2, 2 lbs sh wt.  
#T203/FP-115 \$2.00

INPUT TRANSFORMER  
Pri: 500 ohms  
Sec: 20000 ohms CT  
150-3000 Hz 0.4 W  
1-5/8x2-3/8x1-5/8,  
1 lb. #55C162, \$3.

## LOW VOLTAGE TRANSFORMERS

ALL PRIMARIES 105/110/115  
120/125 VOLTS 60 CYCLE.

Sec: 6.6 V. 18 AMP  
3x3x3x4; 12 LBS.  
GE#9T35Y159 \$4.95

Sec: 6.3V 2.75A/6.3  
V 5.5A, 2.5 KV test  
5x3x3; #7629805 \$6.

Sec: 17 V 1.5 A, 19 V 1.5 A  
2.5x3x2.5, 3#. #54-995, \$4.

Sec: 5 VCT 12.6 A, 3.5x4.5  
x3, 7#. #T3/610I, used, \$7.

Sec: 6.3 VCT 20 A; 3.8x4.5  
x3, 7#. Stancor #P6309, \$12

Sec: 6.3x3.1a/6.3x2.5a/6.3  
x.45a/6.3x.30a/2-5.0a2 amp.  
TFLA01JA \$3.95

Sec: 6.3 VCT 3 A, 1500 V  
test; 3.7x4.5x3.1, 5 lbs  
sh. UTC #S-55, NEW, \$5.

Sec: 2.5 VCT 10 A 2500 V  
insulation; 2.5x2.5x3, 3  
lbs. Stancor #P3024, \$4.95

Sec: 12.5 V 2 amp, 150 V  
2 A; 4x3x4, 13 lbs sh.  
#773605, unused, \$6.96

Sec: 6.5 VCT @ 3.4a/6.5vct  
@ 13.7a/5.2v @ 6.3a/5.2v @  
2.1a. 4x3x6; 15 lbs.  
TRC-SMB-202910 \$6.95

Sec: 5 VCT 6 A, 6.3 VCT 5 A  
(3 KV insulation); 3.3x4.5x  
3.8, 6#. UTC #S-67, \$8.95

Sec: 5 VCT 5 amp; 3x3x2.5  
4 lbs sh. #279625, \$3.95

Sec: 6.3 VCT 0.6 A, 1.5x1.8  
x1.5, 1#. Stncr #P6465 \$1.50

FLYBACK TRANS-  
FORMER, 5 V  
input yields  
300 V 80 KHz  
output; use in  
bug zapper etc

#FLY-B00402K, \$1.95; 3/85.

Pri: 220 VAC 60 HZ. Sec: 2/  
5 VCT 3 A, 5 VCT 6A. 4x4x3  
10#. Kenyon #T355-220, \$8.

## MODULATION

Pri: 8000 Not 250 ma; sec  
2800 Not 300 ma. 200 Hz-  
20 KHz 120 watts. 8x4x4;  
30 lbs. #T201/MD-141, \$12.

Pri: 21000 Not; sec 8000 Not  
ct 250 ma, 150-3000 Hz 250  
W 7 KV test. 7x4x4, 28  
lbs sh. #229633/610, \$15.

PLATE TO PLATE, pri 158000  
4500N 900 ma; sec 7500 L  
535 ma, 400-3000 Hz. 11x8x  
11x8 110 lbs. 568-4831 \$36

STEP-UP/STEP-DOWN XFORMER  
Pri: 115 VAC 60 HZ  
Sec: 208/220 V 150 W 4.5x  
3.5x3.8, 8#. #SU-SD150 \$8.

ISOLATION, pri 115/230 V  
60 HZ; sec 105 VAC 1 amp  
2.2x2.6x2, 3#. #A762101,  
NEW, \$6.95 each; 2 for \$12.

370 VA ISOLATION  
Pri: 100/120/  
220/240/260 V  
Sec: 70-35-20 V  
20 volt. Use  
secondaries in  
series for 105  
-110-125 V 3 amp load, 5 A  
intermittent. 5.3x4.4x4.5,  
17#. #BE16141, NEW \$16.95

## HIGH VOLTAGE TRANSFORMERS

DC POWER SUPPLY  
PRI: 115V 60 CY  
SEC: -8000 V  
-25-1 MA.  
-120V @ 15 MA  
-24V @ 1.2 A  
-16 V @ .45 A  
SIZE: 4x4x9; WT: 15 LBS.  
#GE9T63Y2280G03 \$14.95

Pri: 115/230 VAC 60 HZ  
Sec: 980 VCT 250 ma, 5 VCT  
2 A, 6.3 V 5 A; 6x4.8x4,  
12 lbs sh. #T1/T593, \$12.

Pri: tap 100-150/190-250 V  
Sec: 820 V 290 ma, 85 V 299  
ma; 4x4.5x4.9, 14 lbs sh.  
#AL-21106, used, \$11.95

Pri: 115 VAC 60 HZ  
Sec: 900 VCT 250  
MA.  
4x4x3, 15 LBS.  
#SS-S-P243, \$7.95

Pri: 115/230 V. 60 HZ.  
Sec: 520 VCT @ 90 MA.  
6.3V/1 A. 6.3VCT 4A.  
SIZE: 4x5x3; WT: 7 LBS.  
#TBIRX03LB/FGC-29 \$5.95

Sec: 820 VCT 120 ma, 5 V 3  
amp, 6.3 V 3 A; 4.5x5x4.8,  
12#. #T1/SG71, used, \$8.95

Pri: 115/118/121/124 VAC  
Sec: 42 VCT 2.5 amp, 2 VCT  
12 amp; 6.3x5.8x4.8, 14  
lbs sh. #253-2593, \$8.95

IGNITION TRANSFORMER  
Pri: 115 VAC 60 HZ  
Sec: 7000 V 3.75 ma  
4x5x4, 6" mtg; 10 lb  
#9T63Y3068G4 used \$8.

Pri: 115/230 V 60 HZ  
Sec: 920 VCT 100 ma  
4/6.3 V 8 amps, 5 V  
6 A, 5 V 2 amps  
5x5x5, 20 lbs sh.  
Paeco #910-96R \$12.

Sec 2500 V 5 ma, 2.5 V 2 A,  
6.3/2.5 V 3 A; 3.5x4x3.3, 7  
lb sh. #26R29U, used, \$7.95

## ISOLATION

DUAL PRIMARY, each 100/  
110/120 VAC 60 HZ; can be  
wired for 200/220/240 V  
input. Secondary 120 V  
1.1 amp tapped 100 V 1 A;  
8 V 2 A -0-8 V 1 A; and  
16 V 1.5 A -0-16 V 1 A.

Mounted on board W/AC soo  
ket, fused secondaries,  
diagram. Xformer 5x4x4,  
20 lbs sh. #97313, NEW:  
\$12.95 each; 2/\$22.00

## 6336 VCT 500 MA

Pri: 115 VAC 50-60 HZ  
Sec: 6336 VCT 500 ma,  
7500 V insulation;  
10.5x10.5x9, 90 lbs  
sh. #T9/T368, used, \$85.00

335 V 300 MA, 6.3V 3A  
from 115 VAC 60 HZ pri; replacement  
xformer for DRAKE transceiver. 3.8x  
3.3x3, 7 lbs. #17-61914, NEW, \$8.95

or 5670  
VCT 321  
ma 7500

WV: 115/230 VAC 60 HZ primary. 9x  
10x8, 110 lbs. #229621/610, \$65.00

## CONSTANT VOLTAGE

by Solis, input  
95-130 VAC 60 HZ  
Output: 25-27 VDC  
3.5 amps. 5x3.8  
x4.8, 12 lbs sh.  
#22662, used, \$6.

Sec: 115 V 75 ma, 2.5 V 5A,  
6.3 V 6 A, 6.3 V 3 A, 6.3V  
1.8 A; 4 KV insulation.  
4x7x6, 12 lbs. RPL6585 \$8.

Sec: 880 VCT 300 ma, 715  
WV. 4.5x4.9x4, 16 lbs sh.  
#T3/T368, used, \$12.00

VERSATILE MULTI-OUTPUT TRANS-  
FORMERS from DC power supplies.  
Each have primaries 100/110/120  
VAC 60 HZ; secondaries 25-9-3-  
0.9 V (38.9 V total) @ same cur-  
rent and 150 VCT 200 ma winding.

#021/022-0050, 4 amp output w/4  
diodes; 2.6x3.8x3.5, 5#, \$7.50  
#023-0050C, 7 amps out, 3.5x4.3x3.5, 8#, \$12  
#2002335C, 36 amp out; 5.3x6.4x4.5, 22#, \$36  
#ACDC-30453, pri 115 VAC 60 HZ; sec 21.5,  
11, 5 V (36.5 V total) @ 22 amps, 75 VCT  
200 ma. 5.3x5x4.5, 17 lbs sh. \$24.00

## COMMERCIAL GRADE TRANSFORMERS

suitable for constructing DC  
regulated power supplies or  
other. All 115 VAC 60 HZ pri-  
maries; end bell style with wire leads. NEW:

#757-2658, 80 VCT 1.5 amp (3 A int), 115/  
230 V pri; 3.8x4x3.1, 9#. \$5.95

#TS-465, 44 VCT 3.5 amp, 30 VCT 1.2 A,  
9 V 1 A; 4x3x3, 7 lbs. \$5.75

#701-221, 46 VCT 3.5 amps, 7.5 V 2 A;  
4x3x3, 6 lbs sh. \$5.95

#TA-600, 48 VCT 3.75 amps, 48 VCT 1 A;  
4x3x3, 8 lbs sh. \$5.85

#701-129, 50 VCT 2 amps, 6 V 2 A;  
3x3x3, 5 lbs sh. \$4.95

#701-203, 55 VCT 4.5 amps, 7 V 2 A;  
4x4x3, 10 lbs sh. \$7.95

#701-205, 2/55 VCT 4 A; 4x4x4 10 lb. \$9.95

#701-206, 115/230 VAC primary, secondary two  
55 VCT 3 A; 4x4x3, 10 lb. \$9.50

## AUDIO FILTER

ELECTRO-VOICE FILTER EVKX3  
is an audio frequency fil-  
ter which connects two aud-  
io amps to two speaker  
systems. Bass frequencies  
below 300 Hz are passed to  
one side of the system and  
higher frequencies are  
passed without change to  
both systems. Eliminates  
need for two full range  
systems. 5x4x5, 8 lbs.  
Unused, original-boxed \$4.  
W/water damaged case \$2.50

Pri: 115 V 60 HZ  
Sec: 900 VCT 160  
ma; 4x5x3, 8  
lbs. #74618 \$7.95

Pri: 115 V 60 HZ  
Sec: 900 VCT 84  
ma; 5x3x4, 12  
lbs. #746-7167 \$4

Pri: 115 V 60 HZ  
Sec: 900 VCT 160  
ma; 4x5x3, 8  
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ma; 4x5x3, 8  
lbs. #74618 \$7.95

## PRI: 115 V 60 C

SEC: 6.3 V 3.6 A  
15 V.004 A  
15 V.004 A  
SIZE: 3x3x3.4 LBS  
STK#ORD7629806  
PRICE: \$1.50

Sec: 115 V 75 ma, 2.5 V 5A,  
6.3 V 6 A, 6.3 V 3 A, 6.3V  
1.8 A; 4 KV insulation.  
4x7x6, 12 lbs. RPL6585 \$8.

Sec: 880 VCT 300 ma, 715  
WV. 4.5x4.9x4, 16 lbs sh.  
#T3/T368, used, \$12.00

VERSATILE MULTI-OUTPUT TRANS-  
FORMERS from DC power supplies.  
Each have primaries 100/110/120  
VAC 60 HZ; secondaries 25-9-3-  
0.9 V (38.9 V total) @ same cur-  
rent and 150 VCT 200 ma winding.

#021/022-0050, 4 amp output w/4  
diodes; 2.6x3.8x3.5, 5#, \$7.50  
#023-0050C, 7 amps out, 3.5x4.3x3.5, 8#, \$12  
#2002335C, 36 amp out; 5.3x6.4x4.5, 22#, \$36  
#ACDC-30453, pri 115 VAC 60 HZ; sec 21.5,  
11, 5 V (36.5 V total) @ 22 amps, 75 VCT  
200 ma. 5.3x5x4.5, 17 lbs sh. \$24.00

## COMMERCIAL GRADE TRANSFORMERS

suitable for constructing DC  
regulated power supplies or  
other. All 115 VAC 60 HZ pri-  
maries; end bell style with wire leads. NEW:

#757-2658, 80 VCT 1.5 amp (3 A int), 115/  
230 V pri; 3.8x4x3.1, 9#. \$5.95

#TS-465, 44 VCT 3.5 amp, 30 VCT 1.2 A,  
9 V 1 A; 4x3x3, 7 lbs. \$5.75

#701-221, 46 VCT 3.5 amps, 7.5 V 2 A;  
4x3x3, 6 lbs sh. \$5.95

#TA-600, 48 VCT 3.75 amps, 48 VCT 1 A;  
4x3x3, 8 lbs sh. \$5.85

#701-129, 50 VCT 2 amps, 6 V 2 A;  
3x3x3, 5 lbs sh. \$4.95

#701-203, 55 VCT 4.5 amps, 7 V 2 A;  
4x4x3, 10 lbs sh. \$7.95

#701-205, 2/55 VCT 4 A; 4x4x4 10 lb. \$9.95

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W/water damaged case \$2.50

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Sec: 900 VCT 160  
ma; 4x5x3, 8  
lbs. #74618 \$7.95

Pri: 115 V 60 HZ  
Sec: 900 VCT 84  
ma; 5x3x4, 12  
lbs. #746-7167 \$4

Pri: 115 V 60 HZ  
Sec: 900 VCT 160  
ma; 4x5x3, 8  
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ma; 4x5x3, 8  
lbs. #74618 \$7.95



## CHOKES

6 HY 250 MA 105 ohms 2 KV-2  
4.3x3.5x3, 8#. #L123/610 \$4  
19 HY 105 ma 170 ohms; 3.3x  
4.3x3, 4#. CRV30390, \$5.00  
4 HY 650 ma 25 ohm 1.07 kv  
6x5x4 20 lb #E7485547 \$9

12 HY 80 MA 375 ohms; 3x2x2  
1 lbs. #20C53, used, \$3.00

2 HY 100 ma 100 ohms 2 KV  
test; 2x1x1x1 #T56379 \$2.00

10 HY 150 ma 150 ohm 500WV  
3.3x3.4x4, 5#. #L3-AM20 \$5

4 HY 250 MA 60 ohm 3 KV ins  
2.8x3.5x3.5, 4#. #C-1412 \$4

4 HY 550 MA 40 ohms \$4.95  
3x4x4; 7 lb Paeco 911-39

5 Hy 500 ma 30 ohm, 536 WV  
4.3x5.3x4.5, 15#. #8600, \$5

4 HY 400 ma 70 ohms 450 Vrms;  
3x3x3x3, 6 lbs.  
#SMD-422-745 \$4.

4 HY 300 ma 70 ohms 1000 V-  
rms; 3x3x3x3 #SMD422768 \$4.

1 HY 700 ma 11 ohms 1K WV;  
5x3x3x3, 9 lbs. L101/141 \$3

2 HY 700 ma 23 ohms 1K WV;  
5x3x3x3, 9 lbs. L201/141 \$4

10 HY 400 MA 55 ohm 700 WV,  
5x5.3x4, 17#. #SMB203042 \$8

20 Hy 16 ma 910 ohms; 3.2x  
2.2x2, 2#. SMB202914 \$2.75

7 Hy 140 ma; 2.8x3.5x2.6,  
4 lbs. GE#806116, \$3.50

6 HY 150 MA 100 ohms 2 KV  
2.9x2, 3#. #L603/390A \$3.50

150 MA AVAILABLE VARIOUS  
HY TELL US YOUR NEED.

3 HY 350 MA 30 2K PV; 3x3  
4x2x2, 6 lb. L-225/PP115 \$3.

3.5 HY 200 ma 90 V 1 KVRMS  
3x4x4x3, 4 lbs. #762928 \$3

TUNED REACTOR, 210 mHY 1 A  
choke in circuit with 8 mF  
and 4 mF capacitors; switch  
selects 50 or 60 Hz opera-  
tion. 1.5 ohms max DC res.  
4x6x4 10 lbs. USG3416 \$8.

PRI: 60 V 60 Hz. SEC: 2130  
V 16 ma, 112 V 4 ma. 4x6  
x4, 10 lbs. #HAI31P \$8.95

10.000 VOLT

AMP P/N 845321-3  
PRI: 115V 60HZ.  
SEC: 10.000VAC 100MA  
5x5x4; 10lbs. \$20

SCOPE XFORMERS

ACE HV POWER SUPPLY as on  
page 10; 3000 VDC 50 ua  
output from 115 VAC 60 Hz  
input. Includes 2/1B3 tubes  
6x7x2, 8 lbs sh wt. Unused.  
#ACE-HV3000, \$5.95 2/\$10.

PRI: 112/117/122v. 60 HZ.  
SEC: 228V @ 15 MA.  
300V @ 125 MA. TAPPED  
7V/332/346  
6.6 v. 4.2 AMP.  
5x3x3x3; 8lb. 229613-869 \$5

HV OSCILLATOR TRANSFORMER  
r/HP-160 & USM-105A scopes;  
used with 50 Khz 6A45 os-  
cillator. Two HV windings  
approx 5000 V each. 2x1x2  
x2, 2 lb. #3862 NEW \$35.

3.5 HY 500 MA  
100 V. 60 cyc  
30 ohms 715WV  
4x5x3x3; 10 lbs  
TFIA04KA/A8649  
\$2.95

11 HY 500 MA  
55 ohms, 10 KV  
test. 9x7x6;  
42 lbs sh wt.  
#3C557F-1  
used \$12.00  
\*\*\*\*\*

2 Hy 100 ma  
1.9x1.5x1.6  
1 lb. #SMD-  
422742 \$2.25

PRI: 115/230 VOLT;  
SEC: 54.4VCT 2.5A  
37.5VCT 7.8A

6x5x4x4; 20 LBS.  
SCHOTT TYARX020A  
\$12.95

PRI: 117v 50/60  
SEC: 6500VCT  
65MAOC, 4350WV  
5x6x3x7; 35LBS  
539-6504 \$25.00

3 PHASE DELTA  
60 Hz 400 wv  
nominal 208 V  
3phase  
1940 wv  
1370 v rms 52  
ma rms per leg  
5x5x4; 18 lb  
686-6856 \$25

DUAL CHOKE  
11 HY 100 MA  
200 OHMS  
4x4x5; WT 8  
#3C557F-1  
\$1.75

HIGH CURRENT CHOKES  
#6220526, 85 mHY 10 amps;  
0.49 ohms DC resistance.  
4x3x3x4, 15 lbs. \$9.95  
#6221188, 4 mHY 8.7 amps;  
0.083 ohms DC resistance.  
4x2x2x2, 4 lbs. \$4.95  
#WE330A, 60 mHY 7.5 amps;  
0.74 ohms DC resistance.  
4x4x4x4, 12 lbs. \$7.95  
#WE1059A, 6 mHY 15 A; 0.11  
ohms DC res. Sealed-type.  
5x4x4x4, 15 lbs. \$8.95  
#WE1060A, 2 mHY 15 A; 0.14  
ohms DC res. Sealed-type.  
3x4x4x4, 8 lbs. \$5.95  
#WE241C, 2.5 mHY 25 A; .25  
ohms DC res. Sealed-type.  
3x4x4x4, 7 lbs. \$7.95

SWINGING  
CHOKE  
2.5/12.5 HY  
200/20 MA  
2.5x3x1.9 3#  
#L601/390A,  
Used, \$4.

6.7 Hy 215 ma  
2100 V test;  
4x6.5x3.3, 8#  
#UX6911, \$5.  
1 hy 235 ma  
80 ohm  
2x2x1x1; 8 oz  
#0146 \$2.00  
34 HY 35 MA  
360 ohm; 2.5x  
3.3x2.5, 3#  
#L1/1193 \$3.50  
5.5 Hy 325 MA  
4500 V test  
5.3x4.1x4.6,  
15#, #L1/AM-  
2353, \$6.00

10 HY 250 MA 850 ohm, 4x  
3.4x5.3, 12#. #L1/T593, \$7.  
10 HY 75 ma 268 ohms; 4x2x  
x2; 3 lbs. #CS13886, \$3.

DAVIS DIMMER  
AUTO TRANSFORMER  
Input 230 VAC 60  
Hz 1 Ø; five  
slide adjust 0-48  
V outputs, 20 amp  
max-total. Used  
as stagelight  
control. 10x10x7,  
90 lbs sh.  
#GR-3-048 \$39.95

MULTI-VOLTAGE  
ISOLATION TRANS.  
PRI: 73/88/95/105/  
115/125/190/210/  
230/250. 50/60 CY  
SEC: 17.6/35.2/189  
193/196/200/203  
@ 1.6 AMP.  
9x4x7x7; 40 LBS.  
229619-6 \$14.95

SWINGING CHOKE, 10/25 HY  
125/15 ma. 4x3x3x4, 6 lbs.  
#TF1RX04LB/PGC-29, \$5.95

DUAL CHOKE, 2.5  
HY 500 ma 30 ohm  
240 Vrms 120 Hz  
& 2.5 Hy 400 ma  
35 ohm, 25 Vrms  
120 Hz. 7x3.3  
x3.3, 15 lbs sh.  
#6452, used \$6.  
16.7 HY 90 MA  
110 ohm 280 WV  
4.3x3.3x3, 7#.  
#L301/141, \$6.

DUAL CHOKE, 30 Hy 25 ma  
1350 & 5 Hy 135 ma 150;  
2x5x2x2, 3 lb. #6663, \$3.

120 VAC 60 HZ in;  
0-120 VAC output  
Used-checked;  
knobs and dials  
included:  
4.5 amp  
NEW \$28.95  
3 amp \$18.  
5 amp \$24. 20 amp \$65.  
40 amp \$145.00  
240 VAC input; 0-240 V out.  
2 amp \$16.  
QUANTITIES LIMITED. Write  
your needs; stock changed!

12 VOLT 60 HZ input, 0-3.5  
V 2 amps out. #5-1066, \$3.  
VARIAC M-5/RMS11-2, 0-135V  
@ 5 AMPS FROM 114 VAC 400  
HZ INPUT. #7486, \$12.95  
VARIAC M20BB 120 VOLT 350  
20 AMP. MOTORIZED 115V400  
#5950-089-7734 NEW \$65.00  
POWERSTAT 136-3, three 20  
amp 0-140 VAC variables  
ganged for 60 amp max out-  
put; 70 lbs. Used, \$175.00  
POWERSTAT, 115v. 400/800HZ  
OUTPUT: 0-130v  
7.5 AMPS,  
0.975 KVA.  
#5950-518-  
2508, NEW  
\$19.95

KNOBES FOR VARIACS  
2-3/8" dia. fits  
3/8" shft. w/ptr.  
Luxtrol, \$1.50  
4" dia WHEEL with  
pointer for 11/16" dia  
shaft. #KNOB-35 used \$3.00  
DIAL PLATES, unused;  
4" dia 0-100 scale; 7/8"  
dia ctr hole. Takes three  
screws; #BP8087, \$1.00 ea  
10" dia 0-100 scale; 1.5"  
dia ctr hole. Takes four  
screws; #BP653, \$2.50 ea  
POWERSTAT variable trans-  
former, 120 VAC 380/1000 Hz  
input; output 0-120 VAC 13  
amps. 7x6.2x3.3, 9 lbs sh.  
#GA-50650L, used, \$18.95  
SCREWS. #BP653, \$2.50 EA  
TF-238 400 Hz  
LINE REGULA-  
TOR, input  
100-130 VAC  
400 Hz; output  
115 VAC -5 V  
400 Hz 7.5 KV. Uses 13 amp  
variable transformer and  
buck-boost transformer;  
p/o TPS-1G system. 10x11x4  
x9; 55 lbs sh. Unused \$75.

400 WATT REGULATOR  
SOLID-STATE LINE REGULATOR,  
use to protect your valu-  
able equipment from line  
variances and spikes.  
Input 96-132 VAC 50-60  
Hz; output 115 VAC +5%  
0.75 to 3.5 amps. Har-  
monic distortion 12%  
total max; circuit  
breaker. MIL-spec quality; 11x  
6.5x11, 70 lbs sh. #102-5675, unused, \$49.50  
3-PHASE ISOLATION TRANSFORMER  
for large computers. Pri 220  
VAC 3Ø; Sec 200 VAC 3 Ø 26  
amps 50/60 Hz. Has casters.  
25 ft power cable & 220 V out-  
let. 10.3x15x21.5. 250 lbs sh.  
Unused. #238-5064 \$, NEW \$150.

POWERSTAT TYPE 21 VARI-  
ABLE TRANSFORMER, 120  
VAC 50/60 Hz input; out-  
put 0-140 VAC 4.5 amps  
0.63 KVA. 3.8x4.3x3.5, 5  
lbs sh. NEW, w/knob & dial, \$28.95  
LUXITROL D2500H 0-120 VAC  
20 amp 2500 W; easy-to-  
use vertical mount style.  
With knob but no dial  
plate. 9.3x10.6x4, 10 lbs  
sh wt. Used, \$64.00  
LUXITROL D6000H 0-120 VAC  
50 A 6000 W; vertical mtg  
with knob & dial, 35#. Used, \$150 \$130.

LINE REGULATION  
CN-1091/BSQ-76 LINE  
REGULATOR, input 115  
VAC 47-63 Hz with  
output 115 VAC 60  
amps. Has 2.5" dia  
30-150 VAC meter and  
Output Increase ad-  
JUST. SOLA MFG; 14x  
19x12.5, 225 lbs sh. Used, \$195.00  
POWERSTAT #1156D-2P, 0-140 VAC 100 AMP output  
using two 0-140 VAC 50 amp variable trans-  
formers with T5587 parallel shunt. Input 120  
VAC 50/60 Hz; 160 lbs. Used-checked, \$395.00  
POWERSTAT #1156D only, 0-140 VAC 50 AMP  
output; 80 lbs sh. Used-checked, \$195.00  
SOLA REGULATORS  
SOLA #23-22-125, CVS harmonic  
neutralized hard-wire type. In-  
put 95-130 or 190-260 VAC; out-  
put 120 VAC 250 VA 60 Hz; 9.6x  
7.5x 5.4, 32 lbs sh. Unused, \$85. \$75.  
SOLA #23-25-210, CVS-type similar to above  
1000 VA out; 17.9x6.5x9, 78 lbs. Used, \$175.  
SOLA #63-13-114 PORTABLE  
LINE REGULATOR, best quali-  
ty CVS-type. Input 95-130  
VAC 60 Hz; output 120 VAC  
140 VA 60 Hz. Two outlets,  
On-Off, and cord. 5.6x5.8  
x11.7, 18 lbs sh. NEW, \$85.

400 WATT REGULATOR  
SOLID-STATE LINE REGULATOR,  
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able equipment from line  
variances and spikes.  
Input 96-132 VAC 50-60  
Hz; output 115 VAC +5%  
0.75 to 3.5 amps. Har-  
monic distortion 12%  
total max; circuit  
breaker. MIL-spec quality; 11x  
6.5x11, 70 lbs sh. #102-5675, unused, \$49.50  
3-PHASE ISOLATION TRANSFORMER  
for large computers. Pri 220  
VAC 3Ø; Sec 200 VAC 3 Ø 26  
amps 50/60 Hz. Has casters.  
25 ft power cable & 220 V out-  
let. 10.3x15x21.5. 250 lbs sh.  
Unused. #238-5064 \$, NEW \$150.

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400 WATT REGULATOR  
SOLID-STATE LINE REGULATOR,  
use to protect your valu-  
able equipment from line  
variances and spikes.  
Input 96-132 VAC 50-60  
Hz; output 115 VAC +5%  
0.75 to 3.5 amps. Har-  
monic distortion 12%  
total max; circuit  
breaker. MIL-spec quality; 11x  
6.5x11, 70 lbs sh. #102-5675, unused, \$49.50  
3-PHASE ISOLATION TRANSFORMER  
for large computers. Pri 220  
VAC 3Ø; Sec 200 VAC 3 Ø 26  
amps 50/60 Hz. Has casters.  
25 ft power cable & 220 V out-  
let. 10.3x15x21.5. 250 lbs sh.  
Unused. #238-5064 \$, NEW \$150.

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# ANTENNAS

## HY-GAIN ANTENNAS

HY-GAIN MOBILE-COM ANTENNAS, new:  
760-SERIES antennas include 52" whip, 2.5"H spring base, 18' RG-58 coax cable, PL-259 connector, & UG-175 reducer; 5 lbs NEW, \$9.95 ea; #761 (30-33 MHz) #762 (36-42 MHz) #767 (33-36 MHz)

280-SERIES mobile coil antenna w/ 52" 1g whip & 2" dia loading coil: #280 10 meters, 2-3/4"H coil \$9.95 #281 15 meters, 2-3/4"H coil \$9.95

\*\*\*\*\*  
3 FOOT MAST SECTIONS (left), painted copper-coated steel; sequentially screw into each other with 3/16" dia MS-49 top section smallest thru 5/8" dia MS-54 largest. Sections self-supporting to 15'H; MS-53 can fit into another MS-53. 1 lb sh. May need paint. MS-49-50-51-52-53, used \$1 ea. Unused \$1.50 ea.

CW-206 ROLL BAG for MS-116-117-118 mast sections; 40"Lx3"Hx5"W, used, \$6.00.

FIXED STATION BASE for AT-271/PRC antenna; black phenolic 3/4" dia base w/silver-plated receptacle; BNC connection, and load coil 3 lbs. #CAN-100-7555 \$4.

MP-65 MAST BASE similar to AB-15 below except 4"Lx3" dia insulator; o/a 17"L; 4 lbs. \$12.

AB-243 CORNER BRACKET f/ MP-48-57 and AB-15 bases. (Pictured w/AB-15 below.) 8 lbs sh. Used, \$7.00

MOUNTINGS f/MX-6707 used: #SC-D-189023 f/base, \$10. #SC-D-446058 corner, \$10. EXTENDER f/SCD-446058 \$6.

AB-15 MAST BASE for MS-116-117-118 or AB-21-22-23-24 mast sections; spring action with 3.3"L x3" dia ceramic insulator and bottom terminal. Requires 2" dia hole for mounting. O/a 15"L, 3#. Used, \$6.95

MS-116-117-118 MAST SECTIONS, each 39.3"L. MS-116 is stackable bottom section, MS-117 is middle and MS-118 is tapered top; 1 lb sh each. Used, \$3.50 each

CU-92/APN ANTENNA COUPLING UNIT is a impedance matching device enabling the operation of 2 receivers from one ant. has one SO-239 & 2-binding posts and tuning adjustment 500 KHz-4 Mhz, \$3.95

TM-218 TERMINAL, p/o BC-659, unused, \$9 W-128 wire, 2 ft, \$2.50; 6 feet, \$6.00

AS-27A/ARN-5 horizontal-folded DIPOLE used with BC-733, ARN-5 108-110 MHz receivers, \$15.00

AT-438/GR DIPOLE ANTENNA 15" folded, takes PL-259 coax. conn on insulated bracket. \$15

ANTENNA WIRE SOLID COPPER #10 VINYL COVERED, 250ft #4884C \$25

AT-96/APN-12 VHF STUB ANTENNA with N connection 14" H, 5 lbs. Used, \$15.

AS-2108 ADF LOOP, 100-3000 KHz; 28 VDC. 11.8x11.8 x1.3 4 lbs Used \$16.

VIS-O-GLOW NEON LIGHTNING ARRESTORS, #4392, \$1.00 EA.

## 8 FOOT DISH ANTENNA

AS-554/TRC 8' dia ANTENNA with aluminum mesh paraboloid surface. Designed for 1700-2400 Mhz with 30 db gain; 4.5 Mhz bandwidth. 20 db major to minor lobe ratio. Rugged military construction; looks like one can add onto and extend the cast aluminum supports to increase dish diameter. 36" feedhorn focal length; 16" fall from edge to center. Shipped in sections with feedhorn and yoke. Mesh may have minor but repairable breaks. 425 lbs sh wt. Used \$285.

## AS-1730 ANTENNA SET

AS-1729/VRC ANTENNA SET, consists of MX-6707 matching unit-antenna base, AS-1730, and AT-1095 fiberglass mast sections; designed to be used with RT-246-524/VRC transceivers and vehicular installations of PRC-25-77 radio sets. MX-6707 has automatic or manually tunable frequency ranges 30-33, 33-37, 37-42, 42-47.5, 47.5-53, 53-56, 56-60, 60-65, 65-70.5, and 70.5-76 MHz FM; also BNC connection for RF. Bottom mast section AS-1730 is 32.5"L, upper AT-1095, 64"L; MX-6707 14.3x5.5" dia. 15 lbs; used, \$49.95 MANUAL for AS-1729, partial repro, \$8.50 MX-6707 MATCHING UNIT only, used, \$29.95 AT-1095 or AS-1730 masts only, \$12.50 each.

AB-21-22-23-24 MAST SECTIONS, 27"L (AB-21 is bottom), 1# sh ea. Used, \$2.50 ea

AN-45 Antenna f/BC-620 (SCR509-510) transceiver; telescopes 17 1/2"-98 1/2", unused \$7.50 Canadian MARK II #19 UHF ROD ANTENNA with ZA-1764 base; o/a 27.5"L. Unused, \$10. AT-272A RIBBON ANTENNA & AT-272 FLEX-BASE SET f/PRC-8-9-10; 2 lbs. Used, \$8

AT-1096/VRC MAST SECTION, used with MX-2799 matching unit and AT-1095 mast; used, \$15.

AN-130 WHIP ANTENNA for BC-1000, used, \$10.

ANTENNA SPRING MOUNT, p/o MX-6707 described above; #SM-C-542057, used, \$7.50

MP-74 GOOSENECK BASE for MS-118/AB-23 Mast Sections, 1 1/4" lg. w/spade type bracket for side mounting. \$2.00

M-422 ADAPTER for using MS-116/AB-23 sections with PRC & BC-1000 as long ant. \$2.00

AB-129 Rubber Base f/AT-271 on PRC-8-9-10 \$2. AB-591 Rubber Base f/AT-271 on PRC-25-77, \$4.

AB-1093/USQ-42 WHIP ANTENNA w/spring base and PL-259 connector on base bottom. Lower two sections telescope 21"-35 1/2"; screw-on 16 1/2"L wire-like top section. NEW \$16

## 40-100 MHZ YAGI ARRAY

AS-756/TRC TWO 3-ELEMENT YAGI ARRAY for 40-100 MHz range, 5 db gain; vertical or horizontal polarization. Consists of array spacer bar, two antenna booms, and 12 each long, short, and subassembly antenna elements. Component lengths adjust according to frequency: spacer 58"-112", booms 72", elements 40"-58". Matching transformer built into each boom. 95 lbs sh (UPS in 4 pkgs): AS-756, \$79.50 #YA-756, single 3-element array f/AS-756 \$36.

AB-101 MAST SECTIONS for ANTENNA SUPPORT, steel mast 2" dia X 68" long with swaged end and locking device; sold in sets of 7 only. 100 lbs sh - no UPS. Used, \$38.00

## AB-719 SPRING BASE

AB-719/VRC SPRING ANTENNA BASE, designed to mount on MX-2799/VRC matching unit but will "bolt" to any flat surface. Has BNC RF connection; mates to AT-1096/VRC 52" mast section which screws into

AT-1095 64" top section. Mast sections not included. 4.8x9.3x3, 4 lbs sh. Used, \$7.95 AT-1096 MAST, used, \$15; AT-1095, \$12.50

## ARA-31 HOMING SYSTEM



For use in the 24 to 49 Mhz FM range. Complete system consists of four AT-624 24" antenna elements, two CU-459 ant. element connectors, a KY-149 keying unit w/mtg. and one SA-474 switch box. BNC connections except for one reverse pole BNC. An/ARA-31 w/manual, new, \$50. AT-624 antenna element, \$8.00 each. CU-459 antenna connector, \$8.00 each. SA-474 switching box, \$6.00 each. KY-149 keying unit, \$22.00 each \$15.95

CU-987 DIRECTIONAL COUPLER, connect into RF line and originally provided outputs 100 W & 1 KW Forward & Reflected; two "N" conn. 2.4x4x2, 1#. Used \$18

AS-578/ARA ANTENNA for ARC-27-34-55 direction finding sets; 15 lbs. Used, \$25.

AS-313/ARN-6 ANTENNA LOOP for AN/ARN-6 radio compass system; 16 lbs. Used, \$15.

## MAST MOUNT

ADJUSTABLE MOUNTING PLATE for antenna masts or pipe; three wingnut bolts adjust for 1.1"-2.25" dia pipe. 9" dia base; cast aluminum. 5.5"Hx9" dia 7 lbs sh. #MB-92110, used, \$9.95

\*\*\*\*\*  
SPDT ANTENNA RELAY, with unused contact grounded; part of 30 W 225-400 MHz transmitter. Coil 60 VDC 15 ma 4000 ohm; 3-BNC connections 2x1x2. #D-0089, unused \$9.95

## SPDT ANTENNA RELAY

SPDT ANTENNA CHANGEOVER RELAY, 6 vdc 20 ohm. Contacts appear to be good to 100 watts. BNC type conn 3x1x2. #5945-539-3025 unused \$7.95

## CP-12-13 COUNTERPOISE

CP-12-13 COUNTERPOISE heavy rubber-covered wire spreads to form 15 ft dia radial network for ground plane antenna; used with MS-116-117-118 mast sections; 4 lbs sh. Used, \$12.00

GY-12-42 GUY ROPE SET, 3x20' lengths, \$7 M378 ROPE, 80', \$6. M379, 10', \$1.50

## FIVE-DUE ANTENNA

BUDWIG HYE-QUE antenna insulators and strain connector for long-wire installations; full legal power capacity and weather-tight polymar construction. NEW: #HQ-COHN strain assembly with PL-259 connection for lead-in wire drop, \$5.50 #HQ-INS-FR, insulator pair, \$1.25/pr

## ANTENNA WIRE & REEL

AS-207/CRT-3 WIRE & REEL ASSEMBLY. 300 ft #16 strand-braided cadmium alloy copper wire on RL-481 reel and crank; mounted to aluminum door with adjustable brake and snap swivel. Part of CRT-3 "Gibson Girl" transmitter antenna which attached to kite or balloon. 2x4.5" dia, 3 lbs. Unused-complete wire, reel, door, \$9.95;



## CABLES

### NEW COAXIAL CABLE

NEW MANUFACTURE AND BRANDED WITH STANDARD TYPE NUMBERS TO MIL-R-17A SPECIFICATIONS.

PRICES LISTED FOR LENGTHS INDICATED, IN-BETWEEN LENGTHS USE THE HIGHER PRICE. LESS THAN 100 FEET ADD 10% TO HIGHEST PRICE

COAX	100	500	1000	5000
RG-#	Ohms	feet	feet	feet
RG-8/U	52	.25	.23	.21
RG-11/U	75	.23	.22	.21
RG-58/U	53.5	.13	.12	.11
RG-59/U	73	.17	.16	.14

Prices subject to change without notice.

### NEW COAXIAL CONNECTORS

SO-239	PL-259	CH-259	PL-258 JUNCTION
\$ .79 ea	\$ .89 ea	75¢ ea.	\$1.50 ea
10 or more	10 or more	10 or more	10 or more
\$ .75 ea	\$ .85 ea	70¢ ea.	\$1.25 ea
#2H-SO-239, two hole mt	#83-58FCP, short barrel PL-259 for RG-58, 50¢	UG-260 BNC conn for RG-59, \$1.	
SO-239 \$ .75			

### COAX CONNECTORS

CONNECTORS & ADAPTERS: (m) male, (f) female, (bulk) bulkhead, (rec) receptacle, (r/a) right angle; (U) used, (Un) unused.

TYPE BNC: UG-88 m (RG-58) U \$1.55;  
UG-260 m (RG-59) U \$1.60 UG-291 f panel U \$1.  
-260 " Un \$ .85 -909 bulk U \$1.  
-273 to UHF, Un \$2.00 -306 R/A adapter  
-282 to post \$1.50 used, \$1.75  
-290 f rec U \$ .65

TYPE C: UG-573 m (RG-8) U \$1.50 ea  
UG-626 m (RG-21) U \$2. UG-710 m R/A Un \$3.  
-943 (RG-21) U \$3.

TYPE N: UG-21 m (RG-8), NEW, \$4.00 ea  
UG-27 m/f R/A Un \$2.00 UG-201 (f) to BNC  
-30 f-f bulk Un 2.00 (m) Un \$2.50  
-58 f chassis U 1.50 -593 f chassis  
bulk U \$2.00

TYPE TNC: Gremar #6006 m Un \$2.50; U \$1.50  
#6177 m R/A Un \$3. #6098 to N f bulk U \$3.

BALANCED ANTENNA INPUT for R-390A receiver:  
STAR 7162 (RG-58) U \$5.

UG-100 m U \$1.50 DA-113 dummy U \$5.00  
-109 f/UG-100 \$1.50 UG-212 HN R/A Un \$3.  
-920 R/A HN (m) to HN (f), unused, \$3.00  
M-359 elbow: PL-259 to SO-239 U \$ .80; U \$2.

COAX CABLES from mil-equipment; used-unused:  
CG-530 CABLE, 54" RG-62 w/2 UG-260 BNC, \$3.  
CG-357, 50' RG-59 w/male & female "N", \$4.  
RG-213-3, 3' RG-213 w/90 male "N" conn, \$6.  
RG-213-18, 18' RG-213 w/"N" connectors, \$10.  
TNC-BNC CABLE, 3"L; 90 BNC, strait TNC, \$4.

## WIRE SALE

Vinyl-covered hook-up wire, all stranded copper; no color choice. May not have continuous lengths over 1000 ft.

	#10	#14	#16	#18	#20
\$14/100'	\$100/1000'	\$6.50/100'	\$4.50/100'	\$3/100'	\$2/100'
\$42/1000'	\$185/5000'	\$28/1000'	\$110/5000'	\$18/1000'	\$60/5000'
\$12/1000'	\$30/5000'	\$12/1000'	\$9/1000'	\$30/5000'	

#22 shielded \$3.50/100' #22/LK' \$75/5K'  
#26 solid \$6/500' \$9/1000' \$30/5000'

AIRCRAFT-TYPE WIRE, nylon insulation w/braid covering; silver-coated wire and shield:

#22 stranded, \$4.50/100' 10x100'/#32.

\*\*\*\*\*

COMPUTER CONTROL CABLE in black PVC jacket,

#24 wire in color-coded vinyl; LV-low voltage

Cond 10' 100' 500' 1000'

#0024-28LV 28 \$/ft .45 .32 .28 .22

CC24-14 14 .32 .28 .24 .18

### 1700 TO 2600 MHZ

1700-2600 MHZ WAVEMETER, 20-turn vernier tune; increments of one. BNC input connection; 1N21 diode out put. On 3.5"W bracket; o/a 4.8"H x2", 2#. #SND-203123 used, \$24.95

### AMPHENOL

## Sale!

RF and AUDIO CONNECTORS, all new package; Male (M), Female (F)

ENC quick assembly:

#31- -4701 50 (F) \$1.

#83-23 UHF m-f lightning arrester. \$2.50

UHF-types: #82-23 (M) to (F) w/ground, \$1.50

#83-58SPA, press male to (F) adapter, \$1.25

83-58FCP, short barrel PL-259 f/RG-58, \$1.50

83-877, adapter with PL-259 each end, \$1.25

#83-23 UHF m-f lightning arrester. \$2.50

82-831 push-on chassis BNC (f), NEW, \$4.5

#81-103 mini plug or #81-104 mini jack, \$1.50

MICROPHONE CONNECTORS, all males 1/8" diameter

#80-23 press fit 60¢

80-876 look ring \$1

80-872 extended pins 60¢

80-878 look ring \$1

80-886 threaded barrel \$1

RIBBON CABLE for computer wiring or similar jobs;

20-conductor #22 stranded wire with ten color codes.

#RIB-20C: 10' 100' 500' 1000'

Price per foot: \$.50 \$.40 \$.30 \$.20

MULTI-LINE TELEPHONE CABLE, 18 feet of 50-conductor PVC jacketed cable with Cinch

77-72500 blue connector on one end and terminal lugs on the other; a nice ready-made piece for those complex

wiring jobs. 3 lbs; #50-TC-18, used, \$5.95

BELDEN TV WIRE

BELDEN "CITY COLOR" SHIELDED TWIN-LEAD TV WIRE; two 24 AWG

7x34 stranded copper-covered steel conductors with Beldfoil shield. Recommended for VHF-

UHF-FM use in high interference metro areas. 75 ft (3#), \$8. 100 ft (4#), \$10.00

2-CONDUCTOR "O" GAUGE CABLE

"O" GAUGE COP- PER CABLE in PVC jacket. Use for welder or jumper cables

or generator hook-up. Each 2-conductor at length indicated: #8369-25, 25 feet, \$25.00

#8369-50, 50', \$42. #8369-100, 100', \$70.

LESS than 25 ft, \$1.25/ft; (Weight 1 lb/ft.)

CODE SIGNALING LAMP

CANADIAN MORSE CODE SIGNAL LIGHT, mirrored reflector tilts by trigger in handgrip; site-tube on top.

Usable also as spot light. Includes 4" clear lens, 10' cable, and carrying case. Light bulb not available (change socket for common bulb). 9x

6.3x8, 15 lbs. #CAN-5A, used \$10. Extra 4" LENS, red, green or clear, \$1.50; 4/\$5.

COLLINS 250 KHZ I.F.

250 KHz IF ASSEMBLY from Collins 618S-1 transceiver.

Has 250 KHz mechanical filter with 6.7 KHz width and tubes 3/5749 and 2/5726.

4x6x3 1/2, 3 lbs sh wt.

#IF250-67/618S1, used, \$12.95

250 KHz IF ASSEMBLY from RT-311/ARC-38 transceiver. Similar to above

but with two mechanical filters—one 2 KHz width, the other 6.5 KHz. #IF250/ARC38 \$24.95

250 KHz CRYSTAL OSCILLATOR from Collins 618S1. Has 250 KHz

BFO oscillator coil, crystal oven with CR-46 250 KHz crystal, and 2/5749 tubes. 4x6x1 1/2, 2 lbs sh. #OSC-250/618S1, \$6.95

### BANDPASS

CEI HIGH-PASS FILTERS, silver-plated receiving type with "K" connections:

#HFP-300, 300 MHz pass; 8.5x3x1.8, 2#. \$16.

#HFP-40, 40 MHz pass; 5.6x3x1.8, 1#. \$14.95

LOW-PASS M-derived 500 KHz cutoff filter;

input/output imped 50 ohms. Removed from 150 W 285-325 KHz power amp. 2-"N" connections;

potted. 6.3x3.5x2, 2#. #FL501/2353, \$7.95

RF OUTPUT TRANSFORMER from 285 to 325 KHz P-A; matched two

4-250 tubes using 2250 VDC on plates push-pull to 50 ohm out-

put. Detector output and N connection; potted. 6.5x3.3x4, 3#. #T502/2353, \$9.

PRC MODULES

A38 TRANS-MITTER VFO module for

RT-841/PRC-77 backpack Transceiver; 2.4x1.3 x1, Used-not tested, \$6. Schematic, \$1.50

ARC-38 OSCILLATOR

O-215/ARC-38 STABILIZED MASTER OSCILLATOR ASSEMBLY

from Collins-made RT-311/ARC-38, an aircraft HF

transceiver. Utilizes series-fed electron-coupled oscillator, a more stable

frequency variation of the Hartley-type. Step-adjust-

ed inductor covers 14000 positions to tune oscillator frequency of 1.75 to 3.5 MHz in

125 Hz steps. Includes Collins SMO #70E-22, discriminator #147A-1, 27.5 VDC motor gear

drive and tubes 3/6AK5, 6BA6, 2/6BE6. Many parts common to ARC-38A SMO assembly. 6x

6.5x10, 15 lbs sh. Used, w/schematic, \$35.00

618S-1 POWER AMPLIFIER, p/o Collins 2-25 Mhz 100

watt transceiver. Has 12.3 uH roller inductor;

coil 3x1 1/2" dia with 27 turns #14 silver-tinned

wire rotated by 115 VAC 400 Hz selsyn. Also ten

Centralab 850 HV capacitors 10 pf, 50 pf, 7/100 pf,

and 1000 pf. Big silver contacts on ceramic switch; uses three 6159 tubes. 11x5x6, 10 lbs

#3496/618S-1, less tubes, \$28. With tubes \$36.

MATING CONNECTORS, 2 required, \$2.50 ea

SCHEMATIC for 618S-1 power amp, \$1.50

ANTENNA TUNER

ANTENNA TUNING ASSEMBLY with two 20-400 pf 0.02" air

gap variable capacitors. Each rotates 180° in 10 sec using

24 V 60 Hz and 4 mf 330 VAC capacitor (not included); can be adapted to

differential use. 360° rotation actuates fixed capacitance in parallel over next 270°

in 13 steps. 400 Hz servo motor runs on 24 V 60 Hz; intermittent 115 V 60 Hz required to

engage fixed capacitance steps. W/schematic; 4.3x6.5x3.3, 5 lbs. #2C1003/T-195, used, \$10.

VAR-CAPACITOR 20-400 pf; #C1003-VC, \$5.95 ea

VARIABLE SPEED DRIVE CONTROL

USED WITH MOTOR AM No. E-85-132. GE#3S750RJ750A1, FIELD

100 VDC ARM., 140 VDC., 2.6 A INPUT 230 V. 50/60 HZ. 5 LBS.

Unused w/schematic \$15.00

MOTORS

115 VOLT AC-DC MOTOR, starts at 15

VDC; runs counter-clockwise. 3" dia X 5 1/4" lg plus

5/16" dia X 1-1/8" lg threaded shaft. 5 lbs sh. #AC-DC-R102, unused, \$4.95

115 V AC-DC MOTOR, starts at 25 VDC, runs clockwise. 2 1/2x3 1/4" plus 5/16" dia X 1 1/2" long

machined spiral shaft. 3 lbs. #AC-DC-H102, \$3.

100 RPM 12 VDC GEAR MOTOR, output at 3/8" x 1/8" bar

which would mate with slotted shaft (not included).

Also 3400 RPM available on 5/32" dia x 1/2" lg shaft. O/A 5x2 1/2

x3-3/8; 3 lbs sh. #LEE-11152S unused, \$8.95



## HANDCRANK

HANDCRANK MAGNETO GENERATOR removed from telephone equipment; features long crank with shaft which extends 2.5" from the generator and versatile mounting plate that allows left or right side or bottom mounting. Use to replace "dead" generator in your antique phone, or as remote signaler (ring bells/buzzers), or as "worm shocker"; 4 lbs sh. #MAG-GEN-1085, used-checked, \$15.00

G-41 HANDCRANK GENERATOR, sealed can-type from field phones; preferred in situations where extraneous voltage & dirt is a concern. 4"x2.5" dia, 3#. Checked, \$15.00

DC MOTOR, operates over 10-15 VDC 100 ma 2375-2425 RPM with governor. Shaft 5/16" L x 1/16" dia; o/a 2-7/8x1-1/8. #AST-GK26 \$7.95

## 6 RPM SLO-SYN

SUPERIOR ELECTRIC SLO-SYN 6 RPM SYNCHRONOUS STEPPING MOTOR, 120 VAC 60 Hz 0.5 A 50 oz-in running torque. Reversible instant start-stop. 3/8" dia stainless steel shaft; on mounting plate with capacitor. 7.3x4.5x5.7 lbs sh. #SS50-1292BU, used, \$17.95 \$13.95

GE MINA GEAR MOTOR, 328 RPM 3/8" dia right angle output shaft; other 3500 RPM 5/16" dia shaft, 5 in-lb torque. Requires 115 VAC 60 Hz and 7 mf 220 VAC capacitor; o/a 4x10x3, 8 lbs sh. #GE #5KCM49NG, used, \$8.95 CAPACITOR for above, non-PCB, \$3.00

## 105 RPM GEAR MOTOR

GE MINA GEAR MOTOR, 115 VAC 1.1 amp; 105.7 RPM, 30 in-lb torque. 1"x1/2" dia shaft with 1/8" square key; removable sprockets. Includes integral fan; 10 mf capacitor required. Motor size 7.5"x4.5" dia, 9 lbs. #5SCP10HG1S, used, \$14.95 10 mf CAPACITOR for above, non-PCB, \$3.00

160 RPM DRIVE UNIT w/clutch has Globe C-25A512 27 VDC 15000 RPM motor and 27 VDC clutch assembly. Motor operates with good torque over 5 to 27 VDC. 160 RPM output on 3/16" dia X 1/2" lg shaft. O/A 3 1/4 x 4 1/2, 3 lbs. #160DRV/618 used \$8.95

## ROBOTICS MOTORS

15" STEPPER MOTOR from printer; requires +9 to +40 VDC. High speed and performance w/driver circuit info. 1x1.3" dia shaft; o/a 5.8"x1.6" dia, 2 lbs. #RBM-2-62, 2 ohm field, \$12.50 #RBM-4-62, 4Ω \$15. #RBM-6-62, 5.8Ω \$17.00

15° 4-PHASE VR STEP SERVO, 5 ohms 1.5 A/φ; 28 VDC input pulse. 2 1/4" dia shaft; o/a 3 1/2 x 3 1/2, 2 lbs sh. Made in Canada; removed from equipment. #20MS4C1, \$9.95

26 VDC REVERSIBLE MOTOR with clutch for fast stops; 12K RPM @ 26 VDC 1.2 amps. Clutch engages at 10 VDC which allows variable speed over 10-26 VDC. Rated for intermittent duty. Spline 3/16" dia shaft; o/a 4 1/2 x 1 1/2, 1 lb. #SR-215 NEW \$6.95

20-60 RPM motor, 28 VDC 0.5 amps reversible PM-type. Has mounting collar and tape recorder reel bobbin on shaft. Shaft 3/8" L X 3/16" dia w/o bobbin. 4" L X 2" dia; 2 lbs. #220504/UNH-6, unused, \$12.95

GE DC MOTOR 27.5 VDC 2.5A .044HP 7400 RPM 2.5x1.75 plus .35 in long 3/16 shaft sh wt 3 #5BN14EA2-6822 \$7.95

#A7155 DELCO DC MOTOR, 28 VDC 2.4 A 1/30 HP 3600 RPM. Size: 5 1/2 x 2 1/2" dia; shaft 1" x 1/2" dia, 2 lbs. Unused \$4.

## MOTORS

12 RPM DC DRIVE MOTOR ASSEMBLY with Globe 27.5 VDC 1/100 HP 15000 RPM motor, 26.5 VDC clutch & geartrain which reduces speed to 12 RPM. Strong torque! W/schematic & plug. 4.5x1.5x4.5, 2 lbs. #12DRV/R540, used \$8.95

27.5 VDC REVERSIBLE PM GEAR MOTOR, 85 RPM no-load speed, 1/4 duty cycle; estimated 75 RPM 100 oz-in torque when under load. Shaft 1/2" L x 5/16" dia with gear. O/a 4x1.3x1.3, 1 lb. Globe #5A1231, used, \$12.95

## DC STEPPER MOTOR

PM DC STEPPER MOTOR. dual coil--CW and CCW rotations; each coil 5-pole (72°). Motor has gear box resulting in 180° 2° steps for each rotation of output shaft. Coil 17 VDC 29 ohms but works well on 5 VDC at reduced speed and torque. Motor 1.4"x1.5", shaft .4"x1" dia O/a 2.7"x1.5"; Airpax #A92302, \$4 ea 7/10.

0.7 RPM GEAR MOTOR, 115 VAC 60 Hz, 110 oz-in torque; 3/4" L x 1/4" dia shaft; w/shaft coupler and microswitch assy. 2.3x2.3x2.3, 5.5" L w/assy; 3#. #RBH2505-14 used \$45 \$11

BARBER COLEMAN AC GEAR MOTOR, 230 VAC 60 Hz; approx 3 1/2 RPM. 5/16" dia shaft X 7/8" long; Size: 2 1/2 x 3 1/2, 2 lbs sh. B-C #108134463 NEW, \$3.95

INDUCTION MOTOR, Eastern Air Devices J71-B. 115 VAC 60 Hz 0.25 amp input for 1/40 HP 3100 RPM output. Quiet running; good replacement motor for blowers. 3.1"x3.5" dia, shaft 0.9"x0.3" dia; 3 lbs sh. External capacitor required. #548-2229, unused \$4.95; 4 mf CAPACITOR, \$1.

SA-28 AIRCRAFT INSTRUMENT ASSEMBLY with 27 VDC PM motor, 10000 RPM with worm gear assembly and other parts. Motor size 1 1/2 x 1 1/2, 3/16" dia shaft; o/a 6" L x 3 1/2" dia, 2 lbs. Unused \$6.95

## MULTI-SPEED PM MOTOR

MULTI-SPEED 24 VDC PM MOTOR can be wired for 11500 RPM 0.012 HP 0.7 amp or 3000 RPM 0.035 HP 2.3 amp operation; motor starts to turn at 9 VDC and is reversible. 6"x2.3" dia with 3.5" dia collar; geared shaft 0.6"x0.4" dia. 3 lbs sh. Sperry #2960031, used, \$12.95 \$8.95

JOHN OSTER TYPE C-24A-1B KS-5829 SERIES MOTOR; 27 VDC, 0.01 HP, 7000 RPM. Size: 3x2 DIA.; SHAFT: 1x1 DIA. WT: 1 LB. Unused, \$2.95

200 RPM 32 V 60 Hz GEAR MOTOR, has shaft 1"x1" dia and 3/16" dia shaft for fan. For intermittent use, increased voltage increases torque. O/a 5 1/2 x 2 1/2, 3 lbs. #MOL-2460, unused, \$3.25

26 V 400 Hz 2750 RPM MOTOR will operate from 12 VAC 50 Hz; 3x2.8x3, 2#. #B701/R107 \$2.

12 VDC MOTOR, 3000/5000 RPM clockwise rotation; 40 oz-in torque. 4" L x 3" dia plus 3/4"x5/16" dia shaft. 4 lbs. #C65010-12, \$7.95



CONTROL TRANSMITTER SELSYNS, similar to AY201 rotor 26 V 1 φ, stator 11.8 V 3 φ 400 Hz; usable in wind direction and antenna position projects. Various mfg; 1 lb. #WD-CI-SKL \$6.

AY-165 AUTOSYN DIFFERENTIAL, 400 CYCLE, 11.8 V. 3 PHASE ONE TO ONE RATIO. BENDIX & OTHERS. Size: 1 1/2 x 1 1/2. PRICE: REMOVED FROM EQUIP. \$2.95

AY-231 AND AY-232 SAME SPECS. AS ABOVE. 15CX14 TRANSMIT 115 VAC 400 Hz, used, \$4.95 15R34L RESOLVER 26/11.8 V 400 Hz, used \$4.95

Z3TR4 RECEIVER, 115 VAC 400 Hz, used, \$10.00

MK II SIZE 6 SELSYNS, 115 VAC 60 Hz; sold in mated pairs for rotational and position-indication uses. 7 1/4 x 1 1/2 dia, 12 lbs/pair. Used-checked, various manufacturers, \$45/pair

115/90 V 60 HZ SELSYN TRANSMITTER, type 1 HG 3.6x2, 2#. #1HG-MK14-8, used \$35. Unused \$45 #1HCT-MK11-4A CONTROL TRANSFORMER, 90/55 V 60 Hz; 3.6"x2" dia, 2 lbs sh. Used, \$30.00

## 2JIHI SELSYN DIFFERENTIAL GENERATOR

NORMALLY OPERATES FROM 57.5/57.5 VOLTS 400 CYCLE BUT WILL OPERATE FROM 26 VOLT 60 CYCLE AS SHOWN IN WIRING DIAGRAM ON PAGE 31. SIZE: 2 1/4 x 1 1/2; WT: 8oz. PRICE WITH CONNECTOR CAPS.....\$6.45

DAYSTROM TRANScoil CONTROL MOTOR 115 VOLT 60 CYCLE, 1 PHASE, 2 PHASE 200 VOLT CT. 3200 RPM. Size: 2 1/2 x 2, SHAFT SIZE: 1/16" WITH GEAR. REMOVED FROM NEW EQUIPMENT. PRICE: \$5.00

TACHOMETER GENERATOR, motor 26 V 400 Hz 2 φ; generator 18V 400 Hz 0.3 V/1000 RPM. No load speed 10000 RPM. 2-1/8" L x 1" dia 3/16" x 1/8" dia shaft. #TACH-SKL-MOD, \$7.95

## 6 VDC MOTOR & CHOPPER

MAXON 7-POLE 6 VDC PM BALL-BEARING MOTOR w/1.6"x0.5" chopper assembly for speed control feedback use; approx 120 counts/revolution. Shaft 5/8" L x 1/8" dia; o/a 2.4" L x 0.9" D. Swiss-mfg; #MAX-6V-7P, \$7.95

## GAST PUMP & MOTOR

VACUUM PUMP & MOTOR, Gast #0440-V119 oil-less rotary vane pump and GE 115 VAC 60 Hz 1/3 HP 1625 RPM motor. Pump rated 4.0 CFM @ zero vacuum; 15" Hg continuous, 26" intermittent. Flex coupling thermally protects 7.4"x5.4" dia motor; mounted on 5.8x0.6x14.4 steel base. Inlet and outlet filters not available. 40 lbs sh. Used-as removed from service, \$45.00

## AIR COMPRESSOR

AIR COMPRESSOR rated 30 PSIG, 0.6 CFM max; suitable for air-brush work or light duty inflating. Diaphragm-type unit uses 7 mf 330 VAC capacitor and operates from 115 VAC 60 Hz. Inlet 5/8" NPT; outlet 1/2". 8.3x4.6" dia, 15 lbs. #127P321R, with regulator, \$32.95

CHILD'S PHONOGRAPH TURNTABLE, 7" dia plastic platter with 115 VAC 60 Hz motor; selector switch for 33-1/3 or 45 RPM. Designed for child's record player. 2 lbs. BSR #A142AC37, NEW, \$2.95

SMALL RECORDER PM MOTOR, operates 4 to 12 VDC, reversible. 1 1/8 x 3/8" dia shaft; O/A 1 1/2 x 1 1/2 dia, 1 lb. #R-357141, NEW \$2.; w/pulley \$2.25



## PRR-9 RECEIVER

AN/PRR-9 FM HELMET RECEIVER, extremely lightweight single channel radio in the 47-57 Mhz FM range; 5 mw nominal power output. Uses CR-81 type crystal (not available); 455 KHz IF. Requires 5 V 25 ma originally supplied by BA-505 battery (not available).

With AS-1998 antenna and H-264 headset, 7x3 1/2 xl, 2 lbs. Used \$38. Less AS-1998/H-264 \$25. OPERATOR'S MANUAL for PRR-9, \$7.50

ID-1189/PR CHANNEL ALIGNMENT INDICATOR, designed to test AN/PRR-9 and AN/PRT-4 transmitter. Has 47-57 Mhz signal generator; checks both sets' batteries. Instructions, probes, and transit case included. 12x11x6, 15 lbs sh. Used, \$45.00

## AN/GRA-6 RADIO CONTROL

AN/GRA-6 RADIO CONTROL GROUP for GRC-3 thru -8 series equipment. Includes C-433 (pictured), C-434, LS-166 speaker, H-33 handset, J-654 junction, CW-189

canvas bag, and manual. Group was used to control radios at distances up to 2 miles and also provided telephone communications. C-433 and C-434 each have handcrank ringing generator and bell; require two "D" cells each. 36 lbs. Used, \$75.65. Unused, \$100. C-433, used, \$16.00 C-434, used, \$22.00 H-33, used, \$15.00 LS-166 w/bracket, \$15. J-654, used, \$6.00 CW-189, used, \$7.00 MANUAL for AN/GRA-6 group, original, \$7.50

GRC and VRC RADIO CABLES and miscellaneous: CD-501, battery cable for SCR-284, \$10.00 CD-1086, cable for BC-1306 & GRC-9, \$15.00 CO-278, cord for FT-237 mount, 8 ft, \$9.00 CX-1209, connects RT-unit to CY-590, \$10.00 GRC-to-VRC ADAPTER, U-78 one end and U-229 connector on other; 10.5"L. #8438523, \$8. CX-1359, DC battery cable for GRR-5, \$8.00 CX-1360, multi-cell batt-cable f/GRR-5 \$10.

CX-4721/VRC, DC cable, 2.5 ft, \$8.00 SC-C-446149, looks like CX-4722, 10' \$7.50 SC-C-75348, 6 ft adapter w/U-77 & U-78, \$9.

## 38 TO 54 MHZ RECEIVER



R-110 RECEIVER 38 to 54 MHZ FM CONTINUOUSLY TUNEABLE, VARIABLE SQUELCH AND AUDIO. OUTPUT IMPEDANCE 600 OHMS. 4.3 MHZ. 1.F. WITH TUBES 3/1U4, 2/1L4, 1A3, 2/3A5, 1S5, 2/3C4, 2/6AK5 & 6B2. VOLTAGES REQ. 135 VDC @ 70 MA. AND 6.3 VDC 2 AMPS.

SIZE: 9x13x7 1/2; WT: 32 LBS. USED \$35.95

### R-108

RECEIVER, same as R-110 except 20-28 MHz. Used \$22. Unused \$36.

### R-109

RECEIVER, same as R-110 except 27-39 MHz. Used \$28. Unused \$42.

PP-282 POWER SUPPLY 24 VDC FOR R-108-109-110 RECEIVERS. MOUNTS INSIDE REC. USED \$5.95

## GRC SHOCKMOUNTS



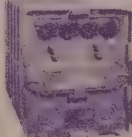
MT-297 SHOCKMOUNT RACK, used in GRC-3 thru -8 systems.

Holds one RT-66-67 or -68, one PP-109 or -112, one R-108-109 or -110, and RT-70/AM-65. Includes system interconnect and DC cables but not RT to PP/AM "dogbones." 33.5x4.8x13.5, 70 lbs. Used \$28. MT-299 RACK for one RT-66-67 or -68 and one PP; 35 lbs sh. Used, \$15.00; Unused, \$25.00 MT-300 RACK for RT-70/AM-65, 24#. Used, \$22. MT-327 RACK for one RT-66-67 or -68, one R-108-109 or -110, one PP-109 or -112; 32 lbs sh. Used, \$15.00; Unused, \$25.00

## RT-68/GRC TRANSCEIVER

RT-68/GRC TRANSCEIVER, 38-54.9 MHZ FM continuously tunable or 100 KHz-step channels. Receives and transmits both voice and 1600 Hz ringing FM; range 10-15 miles. Receiver circuit has variable 1st IF 4.45-5.45 MHz and fixed 1.4 MHz 2nd IF; also squelch and 600 ohm audio output. Transmitter uses crystal-controlled oscillator and oscillator power amp; power output 2 watts (LO) or 15 W (HI). Also meter to monitor xmitter filaments and 90 V input. Requires external power supply available separately. With tubes 4/1U4, 2E24, 2/1A3, 2/1L4, 4/1R5, 2/1AE4, 1S5, 4/3Q4, 3A4, 3/3A5, 2/3B4, 6AK5. 9x13x11.3, 42 lbs sh wt.

Used, \$55. RT-67 as above but 27.9-38 MHz, used, \$39.50; RT-66, 20-27.9 MHz, used \$35.



PP-112/GRC 24 VDC SUPPLY for RT-66-67-68 transceivers; provides all voltages from 24 VDC 6.5 amp input. 7.3x9x13, 39 lbs sh. Used, \$25.00 \$18. Gov't reconditioned, \$35.00

PP-109/GRC SUPPLY, as above but 12 VDC 12 amp input. Used, \$34.00 \$24. PP-109, gov't reconditioned, \$40.00

CX-1211 interconnect cable RT:PP units, \$7. MANUAL for AN/VRC-8-9-10, original, \$7.50

AN/VRC-10 RADIO SET, consists of RT-68, PP-112, MT-299, CX-1211 cable and manual; 90 lbs. Used \$85.

AN/VRC-9, as above but with RT-67, used, \$70. AN/VRC-8, as above but with RT-66, used, \$65.



RT-176/PRC-10 TRANSCEIVER, part of portable backpack set (accessories listed below) covering 38-54.9 MHZ FM continuously tunable

with 0.9 watt transmit output. Controls for Volume, Tune, Squelch, Pointer adjust and dial lock; tubes 9/5678, 2/5672, 3/5676, 1A4, 5A6. See BA-279 BATTERY pg 19 for power requirements. 3x9.5x9, 10 lbs. Used, \$37.

RT-174/PRC-8, as above but 20-27.9 MHz, \$35. MANUAL for PRC-8-9-10, original, \$7.50 CY-5007/744 BATTERY BOX f/PRC-8-9-10, \$6. H-33/PT HANDSET f/PRC-8-9-10, used, \$15.00 AT-272A-272 RIBBON ANTENNA & FLEX BASE, \$8. ST-120 & M-1956 BACKPACK HARNESS, used, \$8. CW-216 ACCESSORY BAG f/PRC-8-9-10, used, \$6.

AM-598 AMPLIFIER POWER SUPPLY, functions as 24 VDC supply and audio amp for PRC-8-9-10 transceivers which plug into top. Built-in audio cord connects to RT-audio. With tubes OC3, 2/12AT7, 2/26E6, 2625; 11.3x11.5x10.3, 38 lbs. Used, \$28.



ID-292/PRC-6 CHANNEL ALIGNMENT INDICATOR, plugs into RT-196 and tests relative level voltages of its circuits; also PA current and Calibrate Adjust. 2.5x5x2.5, 3 lbs sh. Used, \$14.95 Unused with book & spare 5678 tube, \$28.95

## ACCESSORIES

CY-5007/744 BATTERY BOX f/PRC-8-9-10, \$6.00 AT-272A-272 RIBBON ANTENNA & FLEX BASE, \$8.00 AT-271/PRC 7.5" TELESCOPING ANTENNA used \$10 AB-129 RUBBER BASE f/AT-271 (PRC-8-9-10) \$3. AB-591 RUBBER BASE f/AT-271 (PRC-25-77), \$4. H-33/PT HANDSET, used \$15. M-29 MIC, \$5.00 H-189 HANDSET, used, \$15. M-80 MIC, \$10. LS-166 SPEAKER with wall bracket, used, \$15. GRC/VRC CONNECTORS, specify type and equipment used. Used, cut-offs, \$3.00 each. AUDIO PLUGS, metal; used: U-77, \$3. U-229 \$4. CX-1211 CABLE, RT-66-67-68 to PP-112, \$7. CX-2031 BATTERY CABLE for AM-598, \$8.00 SHOCKMOUNT for AM-598, \$5. MANUAL, \$4.00

## PRC-6 WALKIE-TALKIE



RT-196/PRC-6 FM TRANSCEIVER, single channel crystal-controlled in the 47 to 55.4 Mhz range. Range: approx. 1 mile depending on terrain and conditions. Handheld unit has push-to-talk switch, volume control, ribbon antenna, carrying strap, and provision for H-33/PT handset. Uses type CR-23 crystal (not included or available). With tubes 6/5678, 3B4, 3/5672, 2/5676, and 2Q21. Requires 1.5, 45, and 90 VDC. 15x5x4 1/2, 6 lbs sh. Used, \$18.95; MANUAL, \$7.50

CY-853/PRC-6 CA3E, space and padding for 42 crystals; 6 1/2x6 1/2 xl, 2 lbs. Used, \$3.00

RT-196/PRC-6 "AS-IS" less antenna and external appearance "very ugly". However, inside electronics complete with tubes and not corroded. #PRC-6-LA, \$12.00 #LAT-PRC-6, as above but without tubes, \$6.

## GRC/PRC BATTERY TEST

AN/PSM-13 BATTERY TEST SET;

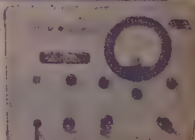
DESIGNED TO CHECK GRC AND PRC-TYPE BATTERY PACKS INCLUDING BA-270, -279, -376, -377, -386/PRC-25, -398/PRC-25, -399, AND -505. METER INDICATES BAD-GOOD (FS=1 MA). WITH ADAPTERS U-240, -241, -242, -297, -314, -315, -346 AND CANVAS CASE. SHPG. WT: 7 LBS. PRICE: USED, EXCELLENT, \$24.95



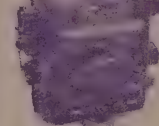
## PRC-8-9-10 TEST SET

AN/UMR-113 RADIO TEST SET,

consists of TS-997 and accessories; designed to align and test modules of backpack transceivers AN/PRC-8-BA-9-9A-10-10A. Modules AM-427-427A, TF-132, or TF-204 from the radio under test simply plug into TS-997 and 3.5" round meter indicates the "quality" of the respective modules. Also checks crystal frequencies 4.26, 4.3, and 4.34 MHz. Operator info incld: 8.6x13x9.7. 23 lbs. Unused, \$40.

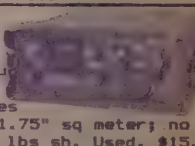


## C-375/VRC CONTROL



C-375/VRC CONTROL BOX, used with GRC-3--8 series equipment as a remote junction and switching box. Controls audio lines of two transceivers, one receiver, and one interphone amp. Has two each U-77 connections, volume controls, mic & phone jacks. 7x7x4, 5 lbs. Used, \$10.

C-435/GRC CONTROL, plugs into MT-297 mount and allows duplex use and retransmission of GRC-3 thru -8; functions as junction for control and audio lines of Rx-Tx and aux-Rx. Has 1.75" sq meter; no generator. 3.5x8.8x7.3, 7 lbs sh. Used, \$15.



## PRT-4 XMITTER



AN/PRT-4 MINIATURE TRANSMITTER, designed to operate on two preset channels between 47 and 57 Mhz. Output 450 mw (Ch 1), 50-250 mw (Ch 2); also 150 Hz tone. Has built-in speaker and clips onto belt or pocket. Requires 12 VDC originally supplied by BA-399 battery (not available). Units sold "as-is" less antenna crystals, battery box. 2x4 1/2x2, 2 lbs. \$16.95

TECH MANUALS WITH SCHEMATICS FOR:

RT-196/PRC-6...\$7.50  
PRC-9A-10A REP \$10.00  
RT-66,67 & 68...\$5.00  
RT-70...\$5.00  
R-108, 109 & 110...\$7.50  
AM-598...\$4.00  
PP-109 & 112...\$5.00  
AM-65...\$5.00  
AN/VRC 13-15 or AN/VRC 16-18, CONTAIN INFO & SCHEMATICS ON RT-66,67,68, R-108,109,110, PP-109,112. VAR. MTG. CONTROL BOX ES. \$7.50



**HIGH  
BAND**

# FM — TRANSMITTER — RECEIVERS

**LOW  
BAND**

**R-394/U RECEIVER, 152-172 Mhz FM single channel crystal-controlled. Dual conversion unit has first IF 7.8 Mhz and 455 KHz second IF; also squelch and muting circuits. 8 ohms output impedance. Set features modular construction with plug-in units 1st RF amp, local oscillator, 1st IF amp, 2nd IF and discriminator, and audio/squelch. 455 KHz selective filter is wired in. Also has compartment for modular power supply which is listed elsewhere on this page. Includes tubes 14/5678, 4/1AD4, 5672, 5840, 5783, and 6AK6. 8 1/2 x 5 1/4 x 14 1/2 lbs. Used \$14.95; Gov't record \$26.95.**

**R-257 RECEIVER, same as R-394 except covers 25 to 50 Mhz FM, used, \$12.95**

**T-278/U TRANSMITTER F.M. 152 to 174 MC APPROX. 30 WATTS, CRYSTAL CONTROL ON ANY TWO (2) PRESET FREQ. PHASE SHIFT MODULATION 15 KC DEVIATION, CR-27/U CRYSTAL UNIT FREQ. RANGE 4750-5437.5 KC. MULTIPLIED 32 TIMES. WITH TUBES 2/384, 3/2E24, 4/5678, 2/5672 AND 2/1AD4.**

**VOLTAGES REQUIRED AS SHOWN WITH DY-93 DYNAMOTOR ELSEWHERE ON THIS PAGE. USED \$14.95  
SIZE: 8 1/2 x 4 1/2 x 1 1/2; WT: 12 LBS. UNUSED \$19.95**

**MX-1547 RECEIVER SUB-ASSEMBLY for R-257 & R-394; relay controls Tx for re-xmit \$4.95**

**VIBRATOR POWER SUPPLIES for R-394 and R-257 receivers; fits inside receivers; 10 lb PP-867, 24 VDC input, \$4.95  
PP-868, 12 VDC input, \$5.95  
PP-869, 6 VDC input, \$5.50**

**DY-93 DYNAMOTOR POWER SUPPLY for use with T-208-278-417 transmitters. Input: 12 VDC 20 amps. Output: 380 VDC 180 ma, 225 VDC 45 ma, -25 VDC 5 ma. 8 1/2 x 7 1/4, 29 lbs. Used \$9.95**

**AN/VRC-19 RADIO SET, 6 VDC input system consists of R-394 receiver, T-278 transmitter, DY-100 dynamotor-power supply, C-847 speaker-control, CV-938 cabinet, MT-1236 mount, H-33 handset, and manual. 17.5 x 11.3 x 25, 110 lbs sh (UPS in 2 pkgs). Used - less C-847 speaker only, \$45.00**

**\$12V/VRC-19 SET, 12 VDC input version of VRC-19; DY-93 in place of DY-100, \$55.00**

## URC-68 DISTRESS RADIO

**AN/URC-68 DISTRESS TRANSMITTER, handheld unit designed as an emergency radio for aircraft pilots; operates over 38-42 Mhz FM and 230-250 Mhz using 4 preset channels, voice, MCW, and beacon. All have 40.5 Mhz FM and 243 Mhz UHF channels; other three frequencies depend on selected crystals (not available), 50 KHz spacing. Power output 500 MW (FM), 200 MW (UHF); range 19 miles line of site or 3-5 miles over varied terrain. Includes squelch, built-in microphone, speaker, and antenna. Requires 11-16 VDC originally supplied by BA-1112 battery (not available). 6 1/2 x 3 1/2, 3 lbs sh. Used-reparable with receiver and transmitter output, \$79.50  
AS-IS, no output but good modules, \$59.50  
MANUAL, partial reproduction, \$10.00**

**CV-278 FREQUENCY SHIFT CONVERTER for RTTY use with R-392 receiver and T-195 transmitter; use with any Receiver having 450-500 KHz IF. Requires 28 VDC 2 A. Has Discriminator meter but less 0-50 uA Signal Input meter. 9.3 x 7.3 x 13.8, 25#. Used, \$30. Power plug, \$6.**

## GE 'PROGRESS-LINE'

**GE PROGRESS-LINE 50 WATT MOBILE TRANSCIEVER, single channel crystal-controlled in the 144-174 FM Mhz band Has #4ER2502 receive, #4ET-21A2 transmit, and #4EP2B vibrator power supply sections. Transmit deck uses two 6146 tubes in P-A. Power supply requires two vibrators (not available) for 12 VDC operation. Internal trimmers for antenna tuning, coupling, and P-A plate; 21 tubes. 6 1/2 x 14 1/2 x 15 1/2, 34 lbs sh. \*MA E/36N, used less xtal & cover, \$45.95. \$318-CCT CONTROL PLUG, \$3. POWER PLUG, \$2.50**

**MODULES from R-394 152-174 Mhz receiver; possibilities for the RF experimenter. W/ schematic; 2.6 x 2.1 x 7.3, 2#; LOCAL OSCILLATOR, tubes 5678, 5783, 2/1AD4, & xtal oven (no xtal) \$4.95  
AUDIO & SQUELCH w/ tubes 3/5678, 5672, 6AK6 and 10K:8 ohm AF transformer, \$5.95  
152-172 MC RF AMP, 5840 & 2/1AD4; \$2.95  
1st IF 7.8 MC, tubes 3/5678 & xtal, \$3.95  
455 KHz SELECTIVE FILTER, 2.5 x 2.5 x 5.5, \$2.95**

## MOTOROLA TRANSCIEVER

**MOTOROLA FM MOBILE TRANSCIEVER, transmits in 144-174 Mhz range, receives between 450-470 Mhz. #TD6050AB transmitter section has output of 25 watts min. (144-167 Mhz), 20 W min. (167-174 Mhz) using single crystal-controlled channel. Crystal multiplication 24 times; 50 ohm output impedance. Has nine tubes including 6146 in power amp. #XRE1000-AH receiver has dual squelch "Private Line" or separate tone-controlled and carrier squelch circuits. Two crystal-controlled channels; 455 KHz final I.F. Audio output 2 watts into 3.2 ohms. With 14 tubes. #XPN-6003B transistorized power supply requires 12 VDC input to supply voltages for transmitter and receiver. Crystals and accessories not available. 6 x 10 x 12, 28 lbs. Used less 6146 tube \$12.50 \$12.50; Schematic set, \$5.**

**OA-2649/TRC-68 VEHICULAR TRANSCIEVER, 225-400 Mhz using 1750 channels, 1.5 W output. 24 VDC or 115/230 VAC; 175 lbs. Used, \$350.**

## POWER AMP FOR GRC-9

**AN-66A POWER AMPLIFIER for RT-77/GRC, first we've ever seen; French-made for NATO forces. Increases RT-77 output to 30 watts AM-CW, 9 W pulse. Uses three 2E22 in PA; with antenna tune meter. Requires +700 V 330 ma, 280 100 ma, +12 V 400 ma, 6.3 V 3 A, 5 230 ma. Non-English deal markings. 16 x 13 x 8, 29 lbs sh. Used \$35.00  
MANUAL (in English), partial repro, \$15.00**

**AA-18 ALIMENTATION (POWER SUPPLY), provides all the necessary voltage for AM-66A from either 12 or 24 VDC input. Similar size and appearance as DY-88-105; 36 lbs. Used, \$75.**

**AN-66A & AA-18 PACKAGE including CD-1086 cable, CX-2031 DC cable, and manual, \$185 \$145.**

## PRC-26 AC SUPPLY

**C-7673/PCC-1 RECTIFIER CONTROL UNIT, intended for use with two RT-505/PRC-25 transceivers and TH-81 terminal as controller for telegraph-telephone repeater system. Also functions as 115 VAC 60 Hz or 24 VDC supply for two RT-505's. Control one or both RT-units, power DRY BAT-5B451-OFF-VEH-115 VAC, handset connection, cables, two 3 A fuses for AC and two 5 A for DC. 2.1 x 9.7 x 6.6, 10 lbs. UNUSED, \$100.00  
Used, \$75.00; Used "AS-IS not working", \$40.**

## RT-77/GRC-9 TRANSCIEVER

**RT-77/GRC-9 BACKPACK TRANSCIEVER, covers 2-3.6, 3.6-6.6, and 6.6-12 Mhz; Hi-Lo outputs 7/1 watt AM, 15/5 W CW. Receiver section has 455 KHz IF and 200 KHz calibration points. Transmitter is continuously tunable or two preset channels; uses 2E22 tube in power amp. With tubes 2/1L4, 3/1R5, 1S5, 3/3A4, and 3Q4. Requires 580 VDC 100 ma, 6.6 VDC 2 amps, 120 VDC 45 ma, 1.5 VDC 500 ma, and 6.9 VDC 575 ma. 16 x 13 x 8, 35 lbs sh. Used, \$69.50**

**ACCESSORIES for GRC-9 system: MANUAL for AN/GRC-9, original, \$8.50  
CD-1086 POWER CABLES, connects RT-77 to DY-88-105 or GN-58, 44" lg \$12.84, \$15.  
SPARE TUBES for RT-77 "used-checked": 2E22, \$4.50 ea. All others, \$1.50 ea.**

## \* LS-7 LOUDSPEAKER \*

**Permanent magnet-type has 4" dia cone and 4000 ohm matching transformer in metal box; includes 5 foot cord with PL-55 plug. 4.9 x 4.9 x 3.4, 4 lbs. Used, \$15.00  
LS-203 SPEAKER, similar to LS-7 but looks like LS-166 (p 7), \$16.  
HS-30 HEADSET w/ CD-604 cord, used, \$7.50  
T-17 MICROPHONE, used, \$7.00; Unused, \$12.**

**MT-350 VEHICULAR MOUNT for RT-77, \$15 \$7.50  
FM-85 VEHICLE MOUNT BRACKET, \$10.00**

## \* LONG-WIRE ANTENNAS \*

**AT-101 LONG-WIRE ANTENNA, 4.3-12 Mhz, \$10.00  
AT-102 LONG-WIRE, adds 2-4.3 Mhz range, \$9.  
AT-101 & AT-102 LONG-WIRE SET, 5 lbs, \$15.00  
MS-116-117-118 MAST SECTIONS, used, \$3.50 ea  
IN-127 INSULATOR BASE, holds 3/MS-116 & 1 ea MS-117-118; 14.5" black plastic, 2#. \$10.00  
FT-515 BRACKET attaches IN-127 to RT-77, \$3.  
MP-65 VEHICULAR MAST BASE for MS-116-117-118 ceramic insulator. 17.5" Lg, 4 lbs sh. \$12.  
CP-12-13 COUNTERPOISE, 4 lbs, \$12.00  
GY-12 GUY ROPE 20', \$2.50; GY-42 2x20' \$4.50  
M-378 HALLYARD, 80', \$6. M-379, 10', \$1.50**

## GRC-9 CANVAS BAGS

**BG-172 BAG for long-wire antennas, cables, and other accessories; 13 x 13 x 10, used, \$6.  
BG-174 BAG, for mast sections and GN-58 generator legs; 42 x 10 x 4.5, used, \$6.00  
BG-175 BAG for GN-58, 10 x 8 x 10.5, used, \$5.  
CW-140 COVER for RT-77/GRC-9, used, \$10.00**

## ACCESSORY PACKAGE DEAL

**for GRC-9, refer to manual TM11-263 (6/56). All items shown in figure & page #. Used: BG-172 BAG & CONTENTS, figure 5, page 10 except without BX-53; 28 lbs sh. \$52.00  
BG-174 BAG & CONTENTS, fig 6, p 11; (3 ea MS-116, 1 ea MS-117-118); 28 lbs sh. \$45.00  
BG-175 BAG & GN-58, fig 13 p 15; 26#, \$20.**

## DY-88 POWER SUPPLY

**DY-88/GRC-9 DYNAMOTOR POWER SUPPLY, powers RT-77/GRC-9 from 12 or 24 VDC input @ 28 A/1.5 amp max. Usable to power other transceivers. Output: 580 V 100 ma, 105 V 45 ma, 3.1 V 2 A, 1.4 V 500 ma, 6.3 V 575 ma, 13 x 11.3 x 8.5, 40 lbs sh. Used, \$100 \$49.50  
CX-1031 POWER CABLE, \$8.  
DY-105 DYNAMOTOR SUPPLY, same as DY-88 except 24 VDC input only; used, \$45.00**

## GN-58 GENERATOR SET

**GN-58 HANDCRANK GENERATOR with legs, seat and two cranks; designed to power RT-77 transceiver in field but other uses possible (An exercise bike for those who want something more from a workout than sweat!) Outputs 425 VDC 115 ma, 105 VDC 32 ma, 6.3 VDC 2.5 amps, 1.4 VDC 465 ma from your own (or friend's?) muscle input. Generator 10.5 x 7.5 x 8; 39 lbs sh. Used, \$35.00 \$27.00**



## VERY HIGH VOLTAGE

DC POWER SUPPLY WITH 107-125 VAC 60 Hz PRIMARY. Two outputs: +5.4 to 5.75 Kv. @ 140 to 300 u-A. ONE output: -5.1 to 5.3 Kv. @ 100 to 270 u-A. SIZE: 12x2x4 1/2. WT: 10 lbs. GE#9T63Y2029G6, Used, \$10.95

## HIGH VOLTAGE SUPPLIES

### HIGH VOLTAGE

DC - DC CONVERTERS originally a CRT HV supply module; use in HV experiments or in bug zappers.

#ULC-14-07C, input 5-15 VDC 100; output 4.5 to 13.5 KV. Also 135-402 V and 70-93 VDC. Potted; PTK mfg. 3.2x4.2x1.4, 3#, NEW \$9.95  
#82-10841-01, input 10-20 VDC 100-300 ma produces output of 10-20 KVDC; aux outputs of 64-135 V and 35-39 V. Greater current output than above supply; components accessible-not potted. 5.3x5.3x1.8, 2#; NEW \$12.95

## TRYGON DC SUPPLIES

DC SUPPLIES for the military; inputs 105-125 VAC 48-62 Hz. Outputs regulated 0.01% W/2.5" dia volt- and ammeters; 6.5x19x15;

#PP-4464 (Trygon M15/15A), output 15 VDC +/-3v 0-15 amp; 70 lbs sh. Used, \$125.00

#PP-4466 (Trygon M4.5/30A) output 4.5 VDC +/-1v 0-30 amp; 65 lbs sh. Used, \$65.00 \$45.00

## COMPUTER SUPPLY

COMPUTER POWER SUPPLY with popular outputs 28 VDC 9.6 amps and regulated 5 VDC 5 A, 12 VDC 5A, -12 V 2 A, -6.8 V 0.8 A. Operates from 100-125 VAC 60 Hz. Supply has many useful components such as trans-

former rated 39.8 VCT 8.5 A and 22.7 V 12 A, front panel w/(4) 10x2-7/8x1 1/2 heatsinks and six 2N3055 transistors, (2) KB25005 bridge rectifiers, capacitors (3) 51000 mf and one 19000 mf 40 VDC, regulator PC card, other parts. Made in Canada for NCR. 10x14x12, 65 lbs sh. #M32-01-775, \$29.95; 2/\$50.

### SOLID STATE POWER SUPPLIES

rated conservatively and constructed on rugged steel frames. Units have front voltage adjust +/-10% running light, AC reset. Also adjustable current limiting and overvoltage protection. Power input: 115 VAC 60 Hz. Removed from equipment. Add \$10.00 to prices for "checked" units.

RATING	SIZE	SH	WT	No.	PRICE
4 V 30 A	13.5x7x15.5	65#	92#		\$20. \$24

20-24 V 5.5 A	9.5x7x20	47#	332		\$40. \$30
30 V 3 A	15.5x7x19.5	38#	989		\$27. \$21

DUAL POWER SUPPLY, same style as above, -32-36 V 14.7 A and -32-36 V 10.3 A; two independent regulators w/common buss. 20x12x14, 125 lbs sh. #450, \$60 \$45

## 12 VDC FOUNDATION

COMPUTER POWER SUPPLY provided 12 VDC 3.5 amp & 4-5 VDC 17.5 amps output with current limit and OVP from 115 V 60 Hz input. Units less regulator cards but otherwise complete. Good basis for your custom supply. 6x8.5 x14, 34 lbs sh. #9566-LC, used, \$17.95

CRT LOW VOLTAGE SUPPLY, 10 VDC 1.75 output +/-1 V from 115 VAC fused input. W/cover and plug. 4x6.3x10.5, 13#. #LV-HFE, used, \$5.95

## COMPUTER SUPPLIES

COMPUTER POWER SUPPLY, outputs +5 VDC 15 amps and +12 V 1 A from 115 VAC 60 Hz input. Uses IC regulator to drive 2N3055; also LED status indicators, 4 1/2" axial fan, and cover. 6x8x19 30 lbs. #MA-2149, used \$20 \$15.  
#FD-2205 DISK DRIVE SUPPLY as above but 15 V 5 A, +24 V 5 A, -5 V 1 A; Wilton mfg. \$24.95

## DC REGULATOR BOARD

### POWER SUPPLY REGULATOR

BOARD for supplies +5/-5 regulated 3 amp and up to 24vdc unregulated. W/capacitors 2/15000 mfd 15 V, 32000 mfd 30 vdc, 2/KBC bridge rectifiers, two 2N6576, 2/2N4441 SCR. Regulators fixed encapsulated circuit boards and replaceable. 7.75x6x4; 3 lbs sh. #MEND-REG-SV, NEW, \$6.50

## MODULAR SUPPLIES

AC DC #ECV5N6-1 5 VDC 6 AMP MODULAR SUPPLY, +0.05 line and load regulation from 100/117/220/230/240 VAC 47-440 Hz input; 4.9x5.6x2.5, 5 lbs. NEW \$17.95

ACME ELECTRIC 15 VDC 6.5 AMP SUPPLY, voltage adjust +0.75 V; +0.1% line and load regulation from 115/220/230 VAC 47-440 Hz input. Also remote sensing and adjustable OLP. 9x4.9x3, 8 lbs. #APH15-6.5, NEW \$22.95

## SUN SUPPLIES

OPEN FRAME SUPPLIES which can be used as-is or taken apart for excellent parts values; 115 VAC 60 Hz input, 32 lbs sh. All unused:

#PS-3REG SUN SUPPLY, features two modular regulators 12 VDC 4 amp and one 5 VDC 8 amps max. Unregulated DC outputs 15 V 15 A and 15 V 2 A. AC outputs 50 VCT 2 A, 54 V 2 A, 30 V 1.2 A, and 6.3 V 2 A. Nice 10x12x3.5 chassis; o/a 10"H. Unused, \$24.95  
#PS-1415-NR SUN SUPPLY, unregulated DC outputs 14 V 15 amp, +22 V 4 A, -22 V 4 A; AC outputs 19.3 V 1 A, 30 V 1 A. Includes 5.5x4.8x2.6 and 1.5x4.8x1.3 heatsinks w/200 V 25 A rect-bridges and capacitors; no regulator modules, 20 lbs sh. Unused, \$14.95

## 10/4.5 VDC 15/3.5 AMP

DC POWER SUPPLY provides 10 VDC 15 amp and 4.5 VDC 3.5 A outputs from 100 to 127 VAC 60 Hz input. Wire output in series for 14.5 VDC at 3.5 A. 7x12x4.5, 17 lbs. #PX-29739, \$14.95

CASH REGISTER POWER SUPPLY has outputs +6, +10, +15, -24 VDC from 115 VAC in. Also 6 V gel-cell battery, 6x4.8x1.5 heatsink with 4/70-3 transistors, and regulator board. 8x8.5x7.3, 22 lbs sh. Origin #202550A unused AS-IS \$25 \$14

## 120 V 20 KHZ SUPPLY

LAMP POWER SUPPLY, an item for the experimenter who finds the 120 VAC 20000 Hz out from 120 VAC 60 Hz input intriguing or finds the supply a good source of usable parts. Consists of two 6x4x1 heatsinks each w/2N3055, transformer w/2-4 VCT 500 ma outputs, ferrite core autotransformers, PC board. 4.8x2.5x3.5, 9 lbs. GE#9T63Y1500-G4, \$6.05

UNUSUAL TUBES for collectors and experimenters. Filaments checked but not guaranteed.

JAN 218 RECTIFIER TUBE, 1/2 wave high vacuum; jumbo 3-pin base. 15 1/2"Hx5" dia \$10.  
250TH-R TRIODE w/bad filament 4-pin base; 10"Hx5 1/2" dia, \$8.  
JAN 705A RECTIFIER, 4-pin base. 5"H x 2 1/2" dia. \$5.  
JAN 715B PULSE AMP TETRODE 4-pin base, similar shape as 705A; 5 1/2"Hx2 1/2" dia. \$6.  
WESTINGHOUSE OL-2 TUBE WITH-IN-A-TUBE, 12 1/2"Hx2" dia \$7.

EIMAC 2-450 high vacuum HV rectifier, 30 KV peak; 7.5 V 25 amp fil. Magnificent large glass! 13.3"Hx4.3" dia; 6#. Unused. NOT tested, \$17.50 \$12.50; if TESTED, \$125.

500 MHZ TRANSMITTING TUBE 8012-A TRIODE  
DIRECT WIRE  
FILAMENT: 6.3 V. 1.92 AMPS.  
MAX. PLATE: 1000 V. 80 MA. 40 V  
CAP: G-F 2.7; P-F 0.4; G-P 2.5  
MU 18; GRID CURRENT 20 MA  
CLASS "C"  
TELEGRAPHY 35 W W/DATA, UNUSED, \$2.00 EA. 4 FOR \$6.  
TELEPHONY 20W

REGULATOR MODULES from the Sun supplies, each with current limit and voltage adjust. Includes bridge rectifier, filter capacitor, two 2N3055 or equal and 723 regulator; 2 lbs. #SUN-REG-124, 12 V 4 A; 2#. \$10.  
#SUN-REG-58, 5 V 8 A w/OVP; \$8.

## COLECO DRIVE SUPPLY

COLECO DISK DRIVE POWER SUPPLY for ADAM system; transformer type with outputs +5 V 3 amp, +12 V 2.9 A, -5 V 200 ma, and +18 V inductive 1 A. 115 V 60 Hz input. With cords and On-Off switch. 11x4x8, 10 lbs sh. #COL72559, unused, \$12.95

## CIRCUIT SUPPLY MODULE

POWER SUPPLY MODULE with 3-conductor cord, fuse, 100/115 V input switch, and 50% Voltage switch. Outputs: 18 V 350 ma and 30 VCT 600 ma. 50% switch results 9 V 350 ma and 15 VCT 500 ma. 6x4 #2.3, 4 lbs. #PSN-4404-B7AD, used, \$8. \$3.75

MICROCOMPUTER POWER SUPPLY, uses two 3-TERMINAL REGULATORS AND A 723 WITH TIP3055 TRANSISTOR. Input: 115 VAC 60 Hz; Output: -25 VDC 180 mA; +5 VDC 800 mA, -15 VDC 1.25 AMPS. WITH SCHEMATIC. SIZE: 3 1/2x5x4; SHPG. WT: 10 LBS. #ECRPS-744, ea. \$5.

## 24 VDC 8 AMP SUPPLY

24 VDC 8 AMP POWER SUPPLY originally used in Xerox equipment but usable to power R-392 receiver and other equipment. Requires 105-125 VAC 60 Hz input. 4x9 1/2x8, 20 lbs. #A3-59134, used-checked, \$24.95

### PRINTER POWER SUPPLY

Has AC outputs 2/24, 6, 18, 42-14-0-14-42 V from 115 VAC 60 Hz input. DC rectification required for proper voltages. Also has line filter for external fan, relay for cover interlock, and two fuses. 11x6x4, 18 lbs sh wt. #803-101, \$12.95 \$9

230 VDC TRANSISTORIZED POWER SUPPLY, 115 VAC 60 Hz input. Units marked "200 VDC" but they test at 240 VDC 300 ma. 5x4x5, 15 lbs. #3930, NEW, \$22



Many other tubes in stock. No complete list available.  
WRITE us your needs. WE WILL SHIP "USED-CHECKED" TUBES  
IF "UNUSED" SOLD OUT, UNLESS YOU SPECIFY "UNUSED ONLY"

OLD TUBES as available  
USED, \$2.50; UNUSED, \$4.50

19	24	30	32	33	34	35
16	28	39/44	41	43	48	
57	58	76	77	78	79	89

+ + + + +  
USED, \$3.00; UNUSED, \$5.00

26	37	46	47	75	80	81
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71A UNUSED-BOXED, \$6.00  
+ + + + +  
ANTIQUE GLOBE TUBES,

used-checked, \$7.50 each:  
224/324                      227/327  
201A/301A used-checked \$12.

Other "antique" globe tubes  
in stock. Write your needs!

"EYE" TUBES, used-checked,  
\$7.00 ea; if unused, \$11 ea  
6E5 6U5 6AF6 6AL7 1629

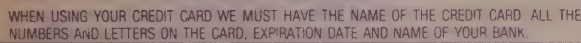
**METAL TUBES,**  
Used-checked \$2. Unused \$4.  
6AR 6BR 6CS 6CR 6ES

686	688	6C5	6C8	6F5
6F6	6F7	6F8	6H6	6J5
6J7	6K7	6K8	6L7	6N7
6R7	6SC7	6SA7	6SD7	6SF5
6SJ7	6SK7	6SR7	6SS7	

POWER AMP TUBES, used-chkd  
unless otherwise noted;  
(stt)=subject-to-your-test.

\* \* \* \* \*

2C39A, 6 V fil.,	\$7.50
3CX100A5, 6 V fil.,	\$9.00
2C39A, unused,	\$18.00
4E27/5-125B, unused	\$35.00
4-125A/4D21, (U.S.)	\$35.00
4-400A, (U.S.),	\$65.00
4X150A, 6 V fil.,	\$18.00
4X150D, 26 V fil.,	\$15.00



IF YOU DON'T SEE WHAT YOU  
NEED LISTED, PLEASE WRITE.

416C unused 35.00  
416B used 7.00  
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Page 21

**24 HOUR FAX LINE 1-419-227-1313**








### LEDEX


**LEDEX HEAVY DUTY SOLENOID #S-8210-025, 8-position 45° stroke, 28 VDC**  
 Starting torque: 5 lb-in @ 35 watts (15 lb-in holding) continuous duty. Up to 32.8 lb-in starting torque. 700 watts 1/20 duty. 75 size: 2 1/2" dia x 1-7/8" with 3/8" x 3/8" dia. shaft. 4 lbs. Unused, \$4.95




**LEDEX 24 VDC ROTARY ACTUATOR, 30° index, 20A coil.**  
 Has two ceramic wafers, one 2P 4 contact (2 n.c. position); other 4 contact, 8 n.c. Also phenolic wafer with contacts for breaking coil circuit. 5" L shaft for adding more 1-7/8" wafers. O/A 7.5x2.3x2.8, 1 lb sh. #RS-51102, unused, \$6.95

**48 VDC ROTARY ACTUATOR, 30° index, 70A coil.** One fiber-glass wafer w/4 shorted contacts unless "selected". 1" L shaft for adding 2 more 1-7/8" wafers. O/A 3x2.3x2.8. #81840-123456, \$4.95


**TIME DELAY/SEQUENCE RELAY,** has 3-SPDT & 1-SPDT 12 VDC 6 A. relays. Delay sequence ON/3.5s/5.0s/10 sec. Solid-state w/24 V 1 amp transformer, 250 mfd 50 VDC cap. 115 VAC 60 Hz input. 7 1/2 x 3 1/2 x 3 1/2, 3 lbs sh. #140-PI97C \$6.95




**SIGMA DC RELAYS; OPEN-FRAME, 2 AMP CONTACTS, 1/2x2x1 1/2 REMOVED F/EQUIP.**  
 #41F500SIL, 6 VDC 5A, \$1.25  
 #41F1000SIL, 12 VDC, \$1.50



**GUARDIAN ROTO-MITE STEPPER, 12 VDC 12 position 3 amps resistive. 3x 1 1/2 x 1 1/2; #705-12P-12D NEW \$4.**




**F&B KP-4175-1 DP-DT PLATE RELAY;** sealed metal can, requires octal socket. 2.5x1.5x1.4, unused, \$2.00




**DUAL COIL each 3PST; one 24 VDC, other 48 VDC. PCB mtg. 2 1/2 x 1 1/2; #116-2601, \$2.50**




**MOTOR DRIVEN SPST RELAY** normally open. 115 VAC 60 Hz 10 A contacts. Non-synchronous 115 VAC 4/5 RPM motor's cams can be set to make contact over 30-60 sec range. Provision to bring out shaft. 2.5x4x2, 1 lb. #N17R-68292, unused \$5.




**E-T-A CIRCUIT RESET push switches,** type 45-700-P. Fits into 3/8" hole; requires 2" depth. O/A 1 1/2 x 2 1/2 x 1/2; Used. " " 15 A, \$2.50



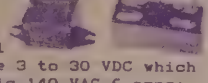
**MUTER 433-AC 10K OHM POT, 1930's-40's precision pot; 3" dia shaft. 3 1/2 x 5 1/2" dia. Unused \$4.**



**STEPPING SWITCH** 9-deck 20-position 115 VDC Clare type 20 6x6x2, 5 lbs. #A320750 \$10.



**SOLID STATE RELAYS control** voltage 3 to 30 VDC which controls 140 VAC 6 amps; 1.2x1x1.1, Grayhill mfg. #7052-048-06N, NEW, \$3.25



**TELEDYNE #601-1003, control** voltage 3 to 10 VDC, 140 VAC 5 amp load; 2x1x1. NEW, \$3.

**P & B 3PDT PLUG-IN TYPE RELAY WITH 24 VDC COIL.** 120 VAC 10 A. CONTACTS. #KUPI4015, w/socket, \$2.95

**AC CONTROL RELAY, 120 VAC COIL; SPST N. OPEN 10 A. AND SPST N. CLSD. 10 A. CONTACTS. SEALED CAN, SOLID-STATE TERM. 3 STUD MTG. 2 1/2 x 1 1/2. #7321/6717, \$2.50**

**DOLLAR DAZE RELAY PC BOARD, 3-SPDT 12 VDC relays in 1x5/8x3 plastic cases \$1.50**



### RHEOSTATS

**RHEOSTAT VALUES:**  
 FIRST SET OF NUMBERS AFTER RHEO-PREFIX IS THE WATTAGE. YOU INDICATE DESIRED OHMS IN SECOND SET. SCD= SCREWDRIVER ADJUST.

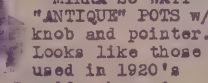
#RHEO-25W-(ohms), \$1.50 ea:			
2	5	6	7
15	50	60	
75	175	200	
250	300	350	400
500	600	800	1K
5K 10K (DUAL 50A @ 3)			
#RHEO-50W-(ohms), \$2.00 ea:			
5	10	15	16
18	20	30	35
100	200	225	500
1K	1.5K	2K	2.5K
DUAL 35 \$4; TRIPLE 2.8 \$6			
#RHEO-75W-16 25 100 \$2.50			
#RHEO-100W-5 20 125 1K \$3.			
#RHEO-150W-500 750 \$4.00			
#RHEO-225W-2500 ohm \$6.00			

**#RHEO-25W-(ohms), \$1.50 ea:**  
 2 5 6 7  
 15 50 60  
 75 175 200  
 250 300 350 400  
 500 600 800 1K  
 5K 10K (DUAL 50A @ 3)

**#RHEO-50W-(ohms), \$2.00 ea:**  
 5 10 15 16  
 18 20 30 35 100  
 200 225 500 1K  
 DUAL 35 \$4; TRIPLE 2.8 \$6

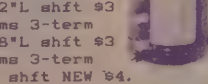
**#RHEO-75W-16 25 100 \$2.50**  
**#RHEO-100W-5 20 125 1K \$3.**  
**#RHEO-150W-500 750 \$4.00**  
**#RHEO-225W-2500 ohm \$6.00**

**MIRRA 25 WATT "ANTIQUE" POTS w/ knob and pointer.** Looks like those used in 1920's radios. Specify ohms: 6, 250, or 400. Unused, \$4.50



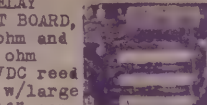
**10-TURN HELIPOTS** 2" L x 1 1/2" dia; 1/2" dia shafts. Used.

**30K ohms 3-term 3% 1/2" L shift \$3**  
**50K ohms 3-term 3% 1/8" L shift \$3**  
**100K ohms 3-term 5% .5" shift NEW \$4.**



**\*\* RADIO COLLECTOR'S \*\* DIRECTORY AND PRICE GUIDE** by R. Grindler & G. Fathauer; 1921-1941 in listings, commentary, pictures. 351 pp; 3 lbs sh. \$15.95

**REED RELAY CIRCUIT BOARD, 3/500 ohm and one 5K ohm 10-15 VDC reed relays w/ large 1/8x1/16" contact area. Also one 26 VDC DPDT sealed relay 3/8x1/7/8 #792-312, unused, \$3.95**

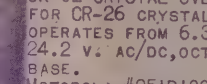


### CRYSTALS

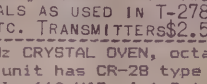
**FT-241 CRYSTALS f/BC-604, 684; channels 0-79. No choice 3/1. Choice \$1.50**  
**200 KHZ FT-241 XTAL, \$3.50**

**1000 Khz CRYSTAL, temp. coeff. 0.0001% (±10 Hz/°C. Octal base; f/BC221-T3233-1M21 freq. meters. Socket wiring may be changed. \$12.**

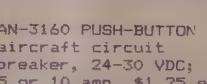
**JK-02 CRYSTAL OVEN FOR CR-26 CRYSTALS OPERATES FROM 6.3-24.2 V. AC/DC, OCTAL BASE.**  
**MOTOROLA #25B1001 FOR ONE CRYSTAL AS USED IN R-394-257 RECEIVERS. \$1.95**  
**MOTOROLA #25B1003 FOR TWO CRYSTALS AS USED IN T-278-208 ETC. TRANSMITTERS \$2.50**  
**3.6 MHZ CRYSTAL OVEN, octal based unit has CR-28 type crystal; 110 VAC. 4x1.8x1.5 1 lb. #Y501/FR-5, used, \$7.**  
**12.0 MHZ CRYSTAL OVEN octal based unit has CR-36 crystal; 24 VDC. 1.8x1.3" dia; #XTL-MD203, used, \$4.95**



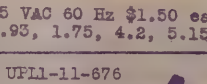
**AN-3160 PUSH-BUTTON aircraft circuit breaker, 24-30 VDC; 5 or 10 amp, \$1.25 ea**



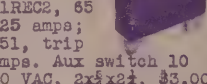
**HEINEMAN MODEL AM12HK, 2 1/2 x 2 1/2 x 2 1/2 12 VDC 3 A \$1.25**  
**50 VDC 3 A \$1.55**  
**50 VDC 40A \$1.50**



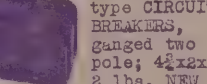
**AML2 115 VAC 60 Hz \$1.50 ea**  
**AMPS: .93, 1.75, 4.2, 5.15**



**IRPAX UP11-11-676 65 VDC 45 A; delay 51, trip 56.25 A. 2 1/2 x 2 1/2. NEW \$3.**  
**#UPG1-1REC2, 65 VDC 1.25 amps; delay 51, trip 1.57 amps. Aux switch 10 amp 250 VAC. 2 1/2 x 2 1/2. \$3.00**  
**HEINEMAN AM35M03, two pole 115 V 10 A; 1 1/2 x 2 1/2 x 2 1/2 \$2.50**  
**HEINEMAN CD2 type CIRCUIT BREAKERS, ganged two pole; 4 1/2 x 2 1/2 x 2 1/2 2 lbs. NEW**  
**#CD2-Z10-1, Rt 0.035 A DC Cur P. Lt 68 A 270 VAC 60 Hz Cur 3. \$4.00**  
**#CD2-Z74-2, 10 A 132 VAC 60 Hz T.D. 3; 125 A 10 VDC T.D. 3. \$4.25**  
**#CD2-A3-DU, two 18 amp 240 VAC T.D. 1. \$4.50**



**P&B #375-207-101, 7 amp 250 VAC or 32 VDC max. Recessed button. 1 1/2 x 1 1/2. NEW, \$1.25**



**HEINEMAN CIRCUIT BREAKERS: #AM2511M6, 230 V 3.7 amps 3 1/2 x 3 1/2, used \$2.25 ea**  
**#JA2-A8-A, 240 VAC; hold 17 A, trip 12.25 A \$2.**

### MAGAZINES

We carry current issues of  
 CQ \$2.50 QST \$3.00  
 Ham Radio \$2.50 73 \$2.95

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 AM-898  
 FP-867-868  
 -869

**\$5.00 each**  
 FF-1175  
 FF-143C  
 RD-60  
 AN/39C-1  
 I-208  
 AN/PDR-27

**\$7.50 each**  
 PP-846  
 DY-92-98-100  
 ARC-27 O.I.  
 ARN-59 O.I.

**\$5.00 each**  
 RT-86-67-68  
 RT-70  
 AM-65  
 R-520 (mil-Zenith Transoceanic)  
 BC-191  
 BC-375  
 RU-19  
 BC-221AH only  
 PP-281-282  
 -484 repro  
 FP-804  
 PP-103-112  
 LN-26

**\$7.50 each**  
 SK-28 repro  
 BC-652-653  
 AN/VRC-7  
 EC-1000  
 BC-1335  
 AN/FRC-6  
 AN/GRR-5  
 R-108-109  
 -110  
 R-257  
 T-278-416  
 AN/ARN-12  
 AN/CRT-3

**FG-20 & 21 contains TT-98, -99, -100 and PP-978, \$10.**

### SCHEMATICS

**REPRODUCTIONS of schematics \$1.50 and up. WRITE.**

### TEST EQUIPMENT MANUALS

**AN/TRM-1 repro \$10.00**  
**AN/URM-25D repro 10.00**  
**AN/URM-25F repro 10.00**  
**AN/URM-26B repro 12.00**  
**SG-12/URM-48 repro 12.00**  
**TS-403/URM-61 repro 12.00**  
**TS-621/URM-52 repro 10.00**  
**FR-5/URM-80 7.50**  
**TS-510/USM-44 repro 10.00**  
**AN/USM-50 repro 10.00**  
**AN/USM-105 repro 17.00**  
**AN/USM-116 repro 10.00**  
**AN/USM-117 repro 15.00**  
**AN/USM-140 repro 17.00**  
**FR-149/USM-159 repro 10.00**  
**BC-221 f/most models 7.50**

**Reproductions \$8.50 each:**  
 ME-6D ME-26 QS-8  
 SP-92 TS-148 TS-352  
 TS-375 TS-382 TS-435B  
 TS-497B TS-505 TS-1060  
 IP-173B PEM-10  
 TV-2, -7 or -10A \$10 ea.

**TEK G \$6.00**  
 W 6.00  
 1A2 7.50  
 1A5 7.50  
 131 6.00

**TEK H \$6.00**  
 1A1 \$10.  
 1A4 7.50  
 130 6.00  
 132 6.00

**CA partial repro, 8.50**  
**HICKOK 1805, part-repro \$15**

### PARTIAL REPRODUCTIONS

**BC-312-342 \$10.00**  
**BC-603/604 (SCR-508) \$10.00**  
**SCR-509/510 (BC-620) \$10.**  
**SCR-608/628 (BC-683-684) \$10**  
**CV-1982/TSC-26 \$10.00**

### ARRL BOOKS

**1988 RADIO AMATEUR HANDBOOK, \$21.**  
**FIRST STEPS IN RADIO, \$5.00**  
**OPERATING MANUAL, \$15.**  
**TUNE IN THE WORLD OF HAM RADIO, wkbook & cassette, \$15.**  
**UNDERSTANDING AMATEUR RADIO, an introduction, \$5.00**  
**200 METERS & DOWN, \$4.**  
**THE COMPLETE DX'er, \$10.**  
**FCC RULE BOOK, \$5.00**  
**GRP NOTEBOOK, \$5.00**  
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**FM & REPEATERS, \$5.00**  
**ANTENNA BOOK, theory and instruction on antennas, \$8.**  
**ANTENNA COMPENDIUM, articles from QST, \$10.00**  
**WIFB's ANTENNA NOTEBOOK, \$8.00**  
**YAGI ANTENNA DESIGN, \$15.**  
**SOLID-STATE DESIGN, \$12.**  
**SATELLITE EXPERIMENTER'S HANDBOOK, \$10.00**  
**TOOLS & TECHNIQUES FOR ELECTRONICS, \$4.95**

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**VINTAGE RADIO 1887-1929, pictorial story of radio's early years; 1000+ pictures and commentary, 263 pp. Softbound, \$1.95**  
**A FLICK OF THE SWITCH 1930-1950, sequel w/TV, \$11.95**  
**1921-1932 RADIO COLLECTOR'S GUIDE, listing of over 9000 radios, 1100 mfgs; 263 pp. Softbound, \$11.95**  
**MOST-OFTEN-NEEDED 1928-1938 RADIO DIAGRAMS, reprint of Beitman's book of 600 old radio schematics, \$11.95**

**TERMS: All manuals include maintenance info & schematic unless noted otherwise.**  
**O.I. Operating info only**  
**N.S. No schematic**  
**repro -Partial reproduction w/operating, maintenance info & schematic.**

**AN/ARC-5 BENCH TEST and ALIGNMENT, covers necessary info to align R-23A, R-148, R-25-26-27 receivers; T-18 thru T-22 transmitters; and MD-7 modulator. W/schematics; repro. \$7.50**

**R-105/ARR-15 repro \$15.00**  
**AN/ARC-38 repro 17.00**  
**AN/ARC-38A repro 20.00**  
**RT427/ARC-39 repro 10.00**  
**AN/ARC-44 8.50**  
**ARC-60 (RL9-CV431) 8.50**  
**ARC TYPE 12 including R-10-11-15-19, T-11-13, and related equip. 8.50**  
**AN/ARN-30 repro 10.00**  
**R-648/ARR-41 repro 15.00**  
**AN/ART-13 transmitter only, repro 12.00**  
**AN/AFR-4 repro 10.00**  
**AN/GRC-9 8.50**  
**AN/ARC-10 8.50**  
**AN/GRC-14 (R-808/T-631) 922**

**AN/ARR-52 repro 17.00**  
**R-395/PRD-1 repro 15.00**  
**AN/TRC-1 (T-14, R-19, and AM-8 pwr amp) 8.50**  
**AN/TRC-8 (T50/R-48) 8.50**  
**AN/VRC-19 (R394/T278) 8.50**  
**R-391/URR repro 17.00**  
**BC-A8-229 repro 8.50**  
**BC-348-J-N-Q repro 10.00**  
**BC-348-K-L-R repro 10.00**  
**BC-624/625 repro 15.00**  
**BC-639 repro 8.50**  
**BC-669 repro 8.50**  
**BC-779/1004 repro 12.00**  
**CV-157 repro 15.00**  
**CV-591 (MSR-4) repro 8.50**  
**R-140 (HRO-5) repro 10.00**  
**R-220/URR-29 \$12.00**  
**R-274 repro 12.00**  
**R-388 (51J3) repro 10.00**  
**R-390 repro 15.00**  
**R-390A repro 15.00**  
**R-392 repro 15.00**  
**SP-600-JX repro 10.00**  
**T-195/GRC-19 repro 15.00**  
**TCS-12 repro 12.00**

**ARMED FORCES CROSS INDEX OF ELECTRON TUBES, 8/52; older mil-tubes, 120 pp. \$12.50**

**A USERS GUIDE TO ARC CORP RECEIVERS --by M. Tauson; ARC-5, ARC-type 12 etc. \$4.**  
**MAINTENANCE TM for Collins 490T-1 (CU-1658/1669). \$14.**  
**LOW & MEDIUM FREQUENCY SCRAPBOOK, 4th Ed. \$9.95**  
**TI SEMICONDUCTOR MEMORY BOOK (1975), 272 pp, \$1.00**



## SONOBUOY RECEIVER

R-1170/ARR-52A VHF RECEIVER 162.5-173.5 MHz AM, FM and video using 31 crystal-controlled channels. Solid-state sonobuoy receiver consists of five plug-in modules; 26 MHz 1st IF, 5 MHz 2nd IF. Conversion possibilities for 2 meters, VHF weather, satellite TV, etc. (See Oct '74 CQ Mag.) Requires external control and 18 VDC. 7.5x2.5 x10, 9 lbs. Used, \$29.95; \$29.95; SCHEMATIC, \$4 w/set. MANUAL, partial repro, \$15 w/set.

## ARC-45 UHF TRANSMITTER

RT-295/ARC-45 UHF TRANSMITTER designed for light aircraft and employs 12 preset channels in the 225-399.9 MHz AM range; 1 watt minimum transmitter output. Receiver IF's: 23.49-24.39 MHz and 2.98 MHz. Audio out 50 mw into 150 ohms. Uses 2/5893 tubes in PA, 5675 as doubler, 7077, plus 28 other miniature and sub-mini tubes. Requires 150 VDC 115 ma, 300 VDC 130 ma, 27 VDC 1.7 amps. 5.3x8x14.3, 19 lbs. Used-no crystals \$75.00; Schematic \$5. SB-328/AR CHANNEL SELECTOR, for ARC-45; 12-position channel select, tone button, volume, and 2 pilot lights w/327 lamps. 2.5x5.8x4.3, 3 lbs. Used \$5.95; Unused, \$9.95

## WW-2 AIRCRAFT TX-RX

SCR-522 RECEIVER-TRANSMITTER, WW-2 vintage unit has 30 watt output over 100 to 156 MHz range on 4 crystal controlled channels (crystals not available). 17 tubes including two 832's in P-A. External DC supply and control required listed below. 16.5x12.5x10.8, 50#. Used, \$29.95 MANUAL for SCR-522, partial repro, \$15.00 PE-94 DYNAMOTOR SUPPLY, powers SCR-522 from 28 VDC 11 A input. 12x5x8, 35#. Used \$9.95 BC-602 PUSH-BUTTON CHANNEL CONTROL, used \$6. CONNECTORS f/SCR-522, \$3 each as available.

BC-457/T-20 COMMAND TRANSMITTER, 4-5.3 MHz unit of the legendary WW-2/Korean SCR-274/ARC-5 aircraft radio. Requires 575 VDC 175 ma. With 1629 "eye" tube for tuning and calibration, 2/1625, & 1626. 5x7 x12, 17#. Used, \$24.00 WRITE for stock of other Command Sets!

MC-215 SPLINE for remote tuning, 6 ft., \$3.00 DM-32 DYNAMOTOR, 25 VDC f/receivers, \$4.95 MT-77 MOUNT for BC-442/RE-2 relay box, \$3.00 FT-232 SHOCKMOUNT for FT-234 rack, \$5.00 FT-234/ single transmitter rack, \$3.25 FT-227/MT-70 SHOCKMOUNT f/FT-226 rack, \$2.50 C-48 TUNING CONTROL, panel style for ARC receivers 190-550 KHz; MC-215 required, \$8. C-22 TUNING CONTROL, 109-15 MHz, used, \$7.95 BC-451 TRANSMITTER CONTROL, 1 to 4 xmitters; built-in key, mode, mic jack, unused, \$5.00 BC-496 DUAL CONTROL, 3-6 and 6-9 Mhz dials for BC-454/BC-455 pair; unused, \$7.95 BC-450 TRIPLE CONTROL, 190-550 KHz, 3-6, and 6-9 Mhz dials for BC-453-454-455; unused \$8.

R-19/ARC AIRCRAFT RECEIVER, 118 to 148 Mhz continuously tuneable. No dial; designed for remote tuning with spline shaft. IF-15 Mhz. With tubes 9002, 3/9003, 14A7, 2/14R7, 14F7, and 12A6. Uses accessories similar to ARC-5 Series. Requires 250 VDC 60 ma and 24 VDC. 6x5x11.2, 13 lbs. sh. Used, \$18.95

R-11A RECEIVER, 190-550 KHz. Similar to R-19 but has 85 KHz IF and tubes 2/14A7, 14S7, 14R7, 14F7, and 12A6. Used, \$12.95

R-10 BROADCAST BAND RECEIVER, 550-1500 KHz, similar to R-11. Used, \$24.95

## ARC-39 RECEIVER-TRANSMITTER

RT-427/ARC-39 RECEIVER-TRANSMITTER, REPLACES COMMAND SETS; COVERS 2.0 TO 9.1 MHz IN TWO BANDS; 91X CRYSTAL-CONTROLLED FREQUENCIES PER BAND. RF OUTPUT: 10 WATTS MIN. INTO 10 OHM LOAD (100 PF). 100% AMPLITUDE MODULATION; AUDIO OUTPUT: 200 MW WITH 1000 UV 30% MODULATED INPUT; 800 MW MAX. BANDWIDTH: 8 KHZ @ 6 DB DOWN. METER INDICATES RELATIVE RF OUTPUT TO THE ANTENNA. WITH TUBES OB2, 2/12AT7, 4/5749, 5750, 3/5686, 4/5814, & 3/6159. POWER REQUIRED: 28 VDC 4.4 AMPS WHEN RECEIVING; 8.5 AMPS TRANSMITTING. SIZE: 7x10x21.2; SHPG. WT: 42 LBS. PRICE: USED, COMPLETE, \$49.50 MANUAL FOR RT-427/ARC-39, REPRODUCTION, \$10.

## 225-400 MHZ CONVERTER

AM-914/TRC AMPLIFIER-CONVERTER, originally used with military R-417 receiver as plug-in for the 225-400 Mhz range. Continuous tuning of RF and oscillator; 30 Mhz I.F. Unit has conversion possibilities as discussed in R. Grove's article in 10/80 issue of CQ magazine. With tubes 5670 and 4/6J4. 7x6x9.8, 17 lbs sh. Used, \$34.95 AM-1179/GRC, 50 to 100 Mhz, \$39.50

AM-1177/GRC, 400 to 600 Mhz, \$44.50 AM-3203A/GRC, 1.35 to 1.875 Ghz, \$49.50

AM-1178/GRC AMPLIFIER-MULTIPLIER, used in T-302 transmitter for 400-500 Mhz FM range. 100 W out f/4X150A and 4X150G. 12x6x14, 45 lbs. Used \$75.

BC-AS-229 RECEIVER, 201 to 398 KHz and 2500 to 7850 KHz using plug-in coil sets. Uses tubes 37, 38, & 4/39's. Requires 230 VDC 80 ma and 12 V. 8x7x16, 15 lbs sh wt.

Tuning coils not available. Unused, less coils, \$29.95

PLUG \$3. TUNE KNOB \$2. MANUAL, repro \$8.50

## ARC-3 AIRCRAFT RADIO

T-67/ARC-3 TRANSMITTER, post-WW-II VHF set covers 100-156 MHz AM using 8 preset crystal-controlled channels; 8 W power output. Uses DC-11 -16-26 or CR-1 type crystals (not included).

With tubes 2/B32, 2/6L6, 3/6V6, 6J5, 12SH7. Requires 24 VDC and 410 VDC 325 ma. 7.5x12.3 x15.3, 24 lbs sh. Used, \$24.95 \$19.95

R-77/ARC-3 VHF RECEIVER, companion to T-67 and also operates on 8 preset crystal-controlled channels (not supplied.) With tubes six 6AK5, 3/12SG7, 2/12SN7, 12SH7, 12SL7, 12A6, 12H6, 9001, 9002. Requires 24 VDC and 210 VDC 210 ma. 6x11x14.7. 24 lbs sh. Used, \$22.95 \$18.95 SCHEMATIC for T-67 or R-77, \$1.50 each.

## PHANTOM ANTENNA

GP PHANTOM ANTENNA as used with WW-II 350-9050 KHz aircraft transmitters to monitor RF at remote point. Has 3x3" rd 0-10 RF ammeter, 10 KV 0.0002 and 0.0003 mf G2 mica xmitting capacitors, 12-nickel-plated terminal posts in 14x12x9 aluminum case w/hinged top; 22 lbs. Unused \$28.

T-363/ARC VHF TRANSMITTER, 132 to 148 MHz AM five channel crystal-controlled; operates from 24 VDC input. 5 W output; companion to R-19 receiver. 4.5x4.5x6, 6 lbs; used, \$16.

## ANTENNA COUPLER



CU-872 ANTENNA COUPLER, handles upto eight receivers in the 2-32 MHz range. Gain: 0 to 3 db. Noise figures: 6 db or better. Has 0-50 microammeter test indicator and circuit selector switch on front. 70 ohm input; type N connections. With tubes 20/6922, OB2. Requires 115/230 VAC 50-60 Hz. 7x19x16.5, 40 lbs sh. Used-repairable, \$49.50 MANUAL for CU-872, partial repro, \$8.50

## 225-399.9 MHZ RECEIVER



R-278 RECEIVER, 225 to 399.9 Mhz AM; crystal frequency control for 1750 channels in 100 KHz steps; ten preset channels. Audio freq response: 200 Hz-20 KHz (wide), 200-5 KHz (narrow). Has AVC, squelch, and 44 tubes; untized chassis, rackmount. 12x19x20, 115 lbs sh wt. Used, less guard channel, repairable, \$125. \$100 MANUAL, partial repro, \$15. Schematic, \$2.50

R-836/ARN-59 DIRECTION FINDER RECEIVER, same as Aircraft Radio Corp R-30A DF receiver used in light aircraft. Covers 190-1750 KHz in bands 190-400, 400-840, and 840-1750 KHz; replaces AN/ARN-6 radio compass system. Can be tuned using push-on knob or remotely using C-2275 control box (not available) and MC-215 spline. IF 142.5 KHz; with tubes 2/5718, 5896, 5/5899, 3/5902, 2/6021, 6112. Requires 24 VDC 1 amp, 110 VDC 90 ma, 125 VDC 20 ma; also 13 V 100 Hz for loop selsyns if used for DF. Voltages originally supplied by DY-107 dynamotor (not available) 4.5x4.5x10.3, 9 lbs sh. Used, \$28.95 OPERATOR'S MANUAL, \$3. SCHEMATIC, \$2 w/set. MC-215 SPLINE for tuning, 6 ft., \$3.00 ID-637/ARN 3" dia COMPASS INDICATOR, 98 w/set.

## R-518 VHF RECEIVER

R-518/FRR-27 VHF RECEIVER, single-channel crystal-controlled reception of AM or tone



signals in the 100 to 156 MHz range. Double conversion with IF's of 23 MHz and 3 MHz. Audio output: 1.5 watts into 200-600 ohms; 50 ohms balanced antenna input. W/squelch and tubes 3/12AT7, 2/6AU6, 5654, 2/6AV6, and 6005. Requires 115 VAC 60 Hz; 6x19.5x18.8, 45 lbs. Used, \$40. Manual partial repro, \$10.

R-748/TRC VHF RECEIVER, single channel crystal-controlled in the 132-150 MHz AM range; 1st IF 20.7 MHz, 2nd IF 5 MHz. Has built-in speaker and controls Volume, Sensitivity, and Squelch. Selectivity +/-20 KHz 6 db down; 52 ohm input impedance. Front panel hinged for access to RF chassis; tubes 2/OB2, 4/6AK5, 6AQ5, 6AX5, 2/6BA6, 2/6J6, 12AT7, 12AX7. 115/230 VAC 50-400 Hz; 5.3x19 x13.3, 34 lbs sh. Used \$29.95; Schematic \$2.

## ARN-30D VHF RECEIVER



R-1021/ARN-30D VHF RECEIVER covers 108 to 126.9 MHz AM in 100 KHz steps (190 channels); originally part of air navigation system. 1st IF 11.7-12.6 MHz; 2nd 1.7 MHz. Electrically turned crystal turrets with frequency displayed on side panel. Adjustable squelch; 300 ohm audio output. 50 ohm input impedance; BNC connection. Tubes 5718, 5840, 5896, 4/5899, 5902, 6021, 6112. Requires 28 VDC 1.8 A and 260 VDC 85 ma. 5.5x11.4x4.6, 10#. Used, \$29.95

PP-2792/ARN-30D 28 VDC SUPPLY, mounts on rear and powers R-1021 from 28 VDC input. 3 lbs sh. Used, \$15 w/R-1021 purchase. Operator Manual f/ARN-30D, part-repro \$7.50



## PIEZO CRYSTAL

PIEZO CRYSTAL CYLINDER for use in pressure or sound experiments. These unusually large 3.4" dia X 5" long crystals produce a high potential when subjected to pressure change caused by weight and temperature change. When audio frequency is applied crystal responds from 1.5 KHz with a peak at 12 KHz (3500 ohm impedance) and a peak at 17 KHz (230 ohms). Dips and peaks occur throughout the audio and ultrasonic range. Cylinder wall 0.4" thick; can be sawed with difficulty into smaller sections. Originally used in underwater detection system; 7 lbs sh. #P-XTAL-86, removed, \$27.95

## VFO - EXCITER - MOD

VFO-MASTER OSCILLATOR FROM THE T-195 TRANSMITTER; GENERATES FREQUENCY OF 1.5 TO 3 MHz. HAS 5749 OSCILLATOR TUBE AND 5749 BUFFER-AMP TUBE. WITH 2X3/16" DIA. SHAFT. 2 1/2 X 3 1/2 X 7, WT: 5 LBS. VFO/T-195, REMOVED F/EQUIPMENT,

\$7.95

MODULATOR F/T-195, DESIGNED TO PROVIDE PROPER AUDIO POWER TO MODULATE POWER AMP AND SUPPLY SIDETONE. 300 HZ AND 3500 HZ BANDPASS. W/TUBES 5726, 2/12AT7, 5814. LESS 4X150 TUBES AND SOCKETS. 8 1/2 X 6 X 4 1/2, 6 LBS. \$10.95

TRANSISTORIZED GUARD RECEIVER 1/ modified RT-178/ARC-27; one channel in 238-248 Mhz range. IF's 25.1/3.45 Mhz; has detector, noise limiter, AVC, 4/2N1745 transistors, and 25.1 Mhz filter. 6 1/2 X 4 1/2, 6 lbs sh. #5821-953-9695 used \$12.95

AM-777 AMPLIFIER DETECTOR, p/o RT-128A/ARC-21 2-24 Mhz transceiver; IF's 1800/300 KHz. Slug tuned; w/tubes 4/5636, 3/5896 3/5899, 3/6021, 5840, 5902, and 5719. Schematic included. 13 1/2 X 2 1/2 X 3 1/2, 5 lbs. Used, \$10.00

## HYDROGEN GENERATOR

M315B HYDROGEN GENERATOR, used to provide hydrogen for 4' balloon p/o CRT-3 Gibson Girl rescue radio. Has 1200 grams of calcium hydride crystals in long can which, when immersed in water, produces hydrogen gas. (EXTREME CAUTION must be exercised in the performance of this process because hydrogen gas is dangerously flammable and the liquid calcium by-product is very caustic!) The M315B cans are dented; suitable only for the recovery of calcium hydride. 11.6" X 4.3" dia, 4 lbs sh. Unused-dented, \$6.95 ea; 2/\$12.00 INFLATION TUBES for M315B, \$3.00 ea

## TRANSISTOR RADIOSONDE

TRANSISTORIZED RADIOSONDE WITH CLOCKWORK TIMING MECHANISM (NO KEY); USED IN METEOROLOGICAL OBSERVATION OR SIMILAR APPLICATIONS REQUIRING AN EXTREMELY LIGHT-WEIGHT TRANSMITTER. UTILIZES A 2-TRANSISTOR MODULATOR AND A 2-TRANSISTOR TRANSMITTER CIRCUIT. TRANSMITTER HAS A 7533 INTEGRAL CAVITY TUBE WHICH FUNCTIONS AS THE TUNED CIRCUIT FOR THE OUTPUT: 1660-1700 Mhz, 575 MW (NO FURTHER DATA). WITH HUMIDITY ELEMENT. TRANSMITTER SIZE: 2 1/2" DIA. X 6"; OVERALL SIZE: 7 1/2 X 4 X 5 1/2. 4 lbs sh. FRIEZ #3002, unused \$9.95 \$6.95

AN/AMT-4A RADIOSONDE, consist of T-304A xmitter and MD-147C modulator; unit is similar to Friez 3002 except uses tubes 5794 and 5875 and operates at 1680 Mhz. Requires 1.5, 6, & 15 VDC. 2 lbs sh wt. #T-304A transmitter only, \$4.95; 2/\$8. MD-147C modulator only less humidity and pressure elements, \$3.00; 2/\$5. T-697/AMT-2 RADIOSONDE XMITTER only, 390-410 Mhz; 5703, 5910 tubes--\$2. BB208 battery, \$2.

## TELE CASTER I

TELE CASTER I TELEPHONE METER, cost-effective device for the individual or business who wants to keep "tabs" on the length and costs of long-distance and, perhaps soon, local telephone calls. Initial and secondary rates/period are programmable using the numeric plus 6-function keyboard. LED display shows cost/period plus elapsed time hr-min-sec. Also display flash- es 15 sec before rate change and has X60 speed-up time so maximum acceptable charges could be determined before the call. In sturdy, handsome beige plastic case. Requires 115 VAC 60 Hz; 2 lbs. NEW w/info \$8.

## TAIL LIGHT ASSEMBLY

TAIL LIGHT ASSEMBLY with red tail/brake light and back-up light; also license plate bracket and one each GE1156 and 1157 bulbs. 13x6.5x3.5; 3 lbs sh. Peter- son #M418LBL, NEW, \$6.95 ea; 2/\$12.00

## OFFICE CASTER SET

OFFICE EQUIPMENT-STYLE CASTER SET, includes four 2.3" dia dual-wheeled black plastic casters with 3/8" dia threaded 1/2" long metal shaft. Two of the casters have a brake lever. Designed for copy machines but usable for similar weight equipment where "good looks" is a consideration. With hardware and instructions; 2 lbs sh. #73S1234, NEW, \$7.50

## VASCAR II SPEED TRAP

VASCAR II DISTANCE/TIME COMPUTER-INDICATOR originally used by police agencies for clocking speed of vehicles while the police car was in motion or stopped. Speed of unknown vehicle determined by referencing a pre-measured distance or the distance can be set while both vehicles are moving. VASCAR can determine speed of vehicle in front of, behind, in opposite direction of, or across the path of the police car. Displays average speed in tenths of miles per hour upto 199.9 MPH. Computer module consists of four circuit boards with 5 VDC logic and transistors. Operates from 12 VDC 3.4 amps. Includes computer module, control/indicator module with cable and plug, power plug, and manuals. "AS-IS" transducer is now included. 2.5x13.5 x7.3, 18 lbs sh. Used-not calibrated, \$60.00

## X-RAY CONTROL

RITTER X-RAY CONTROL PANEL, interesting experimenter item; has D-120 VAC 2.4 amp Staco variable xfomer, 20-pos impulse/Seconds switch, 1.8x0.8" edge-meter, SC110 120 VAC Sonalert, 7 A circuit breaker & ON-OFF rocker switch. 12.3x12.3x3.3, 7 lbs. #R-XR-CP, NEW, \$17.95 #NVR-XR-CP above X-RAY control less the variable transformer; 4 lbs sh. \$4.95



GRAB BOX ASSORTMENT OF USED AND UNUSED MANUFACTURERS AND GOVERNMENT SURPLUS ELECTRONIC PARTS SUCH AS ASSEMBLIES, MOTORS, COILS, TRANSFORMERS, CHOKES, CIRCUIT BOARDS, CAPACITORS, RESISTORS, AND OTHER USABLE ITEMS. PACKED IN 50 LBS. CARTONS, \$7.50 EA. OR TWO CARTONS FOR \$13.00.

Shipped via UPS with freight charges varying from \$6 to \$24 per carton. Allow for charges. GRAB BOX IS GOOD FILLER TO TAKE ADVANTAGE OF MOTOR FREIGHT 150 LBS. MINIMUM WEIGHT RATES.

## PDR-27 RADIAC SET

AN/PDR-27 PORTABLE RADIATION DETECTOR consisting of IM-74 radiac meter and DT-53 or similar detector or probe with BS-1 Geiger-Mueller tube. Meter indicates amount of beta and gamma radiation in milliroentgens per hour. Range scale 0.5, 5, 50, and 500 M-rtngs/hour. BNC connection for headset monitoring. Requires 135, 22.5, and 1.5 VDC originally supplied by batteries (not available). 8x6 x12.5; 15 lbs sh. Used, \$34.95 MANUAL for PDR-27, original, \$5.00 BS-2 GM TUBE, \$7.50; H-43 HEADSET, \$6. \*\*\*\*\* AN/PDR-27 "UNUSED" SET: IM-74, H-43, harness, manual, & CY-693 case; 25 lbs, \$95.00

## HY-GAIN CB BOARD

HY-GAIN CB TRANSCEIVER BOARD: 3 xtals, IF transformers, RF coils. Similar to Hy-Gain boards converted to 10 meters (73, 2/85); no further info. 5.4x4.2 lbs. Unused AS-IS \$3.95 2/\$7

## UHF MODULES

MODULES removed from R-540/ARR-40 265-284.9 Mhz aircraft receiver. Experimental potential by themselves or together. Connector plugs and schematics included: \*\*\*\*\* MAIN RECEIVER MODULE includes 20 CR-23 crystals for the twenty 1 Mhz/step channels. Has 2 RF stages, Injection Osc, Injection Amp, Tripler, and HF Mixer. Mixer output 20.75 Mhz; with tubes 3/6AK5, 2/5840, 6021. Requires 120 VDC; filaments need revired for 6.3 V. 4.5x3x5. #RF-REC/R540, \$7.95

GUARD RECEIVER/ IF MODULE, single channel (238-248 Mhz) xtal-controlled receiver with 1.85 Mhz IF output from 20.75 Mhz input. Tubes 2/5840, 3/6021. Requires 120 VDC; filaments need revired for 6.3 VAC. 4.5x4.5x1.5, 4 lbs sh. #GUARD/R540, \$6.95 \*\*\*\*\* SET both #RF-REC/R540 & #GUARD/R540, \$10.

## WEBCOR RECORDER

WEBCOR TAPE RECORDER plays and records 3-3/4 or 7-1/2 ips on upto 7" dia reels; has fast forward/rewind, edit lever, footage counter, and 20-0-20 record level meter. Built-in speaker; jacks for mic, bridge and external speaker. Monaural use only; 100-10000 Hz response @ 7-1/2 ips. 500K mic impedance; tubes 12AU7, 12AX7, 6X4, 6BQ5, 6HU6, 7025. Requires 115 VAC 60 Hz. 13.5x12.3x7, 72 lbs. Used-checked for basic playback/recording; may need further adjustment. Without mic & reels. #WEB-173B \$35. MIC \$6. MANUAL-partial \$8.50

## ANTI-JAMMING TRAINERS

AN/ULT-T2 (15X12) X-BAND INTERFERENCE TRAINER, a low power transmitter in the 8500-9600 Mhz range designed to train radar operators in anti-jamming techniques. Unit can be manually tuned and modulated by a sine or square wave, pulse, noise, or modulation from an external source. Has controls for CW, 5-16 Mhz/sec sweep, 250-500 -1100 Mhz sweep sector, percent modulation, and pulse width 1-5 usec. Frequency modulation 15 Hz-15 KHz variable and fixed 50 or 100 KHz. Audio output impedance 600 ohms. Designed to be used within 50 feet of radar. Uses 2K45 klystron. Requires 115 VAC 50-400 Hz; with antenna horn. 13.8x19.8x19.8, 85 lbs sh wt. Used-complete, \$65.00



## Control Boxes

## Filters

## Indicators

## Tuning Units

## Amplifiers

**ALARM BELL**  
OPERATES FROM  
24 VOLT D.C.  
SIZE: 4x4x2 1/2  
WT: 1LB #561-3  
NEW \$1.95

**ANGLE INDICATOR.** clamps to  
2.5" dia  
pipe;  
metal  
ball in  
liquid shows 0-60° tilt on 4"  
curved scale. #AL-060 NEW \$4

**RF CHASSIS f/**  
Bendix RA-18C  
108-136 Mhz  
receiver; 7-  
gang capacitor  
tunes ant-coil  
RF grid, RF  
plate, mixer grid, 1st osc-amp, &  
cathode follower input.  
Tubes 2/5654, 5670, 5725;  
requires 6.3-12.6-108-250  
VDC. 3 1/2x3 1/2x10 1/2, 5 lbs. w/  
schem. #RF100-RA18 NEW \$10.

## TX MONITOR

**CARRIER MONI-**  
TOR, provided  
DC and audio  
currents for  
remote check  
of xmitter op-  
eration. Units  
LESS 3 pf 15 KV  
vacuum capacitors but still  
good parts value including  
600 VCT 35 ma transformer;  
tubes OA2, 6AL5, 6J6, 6X4;  
600:600 ohm AF transformer,  
DPDT & SPST toggle switches  
two 49 pf air trimmer caps,  
etc. 6x8.5x6.3, 12 lbs sh.  
#CAR-MON-87, unused, \$5.95  
#CAR-MON/VC, above with  
vacuum capacitors, \$14.95

**LS-230 INTERCOMM-**  
UNICATION STATION  
CONTROL BX  
CONTAINS 3 ROT  
ARY 3 POSITION  
LEVER CONTROL. SW  
I LEVER SW. DP  
DT CENTER OFF,  
I LEVER SW. SPST I SIDE,  
OTHERSIDE SPST MOM. & CENTE  
OFF. 3 LITE IND. PHONE &  
MIKE JACK & I MIN. TRANSFOR  
50 TO 500 OHM. SIZE: 7x5x2 1/2;  
WT: 3 LBS. PRICE: \$5.95

**FIRE CHEX AUTO**  
SHUTDOWN DEVICE  
automatically  
disconnects a  
vehicle's elec-  
trical system  
in a collision.  
Also use of its 80" spline  
control allows Fire Chex to  
manually "shutdown" elec-  
trical systems making it  
more difficult for a thief  
to steal a vehicle. With  
spline, fused line, mount  
brackets, info. 4.5x4.5x1.8  
6 lbs. #FI-CHX, NEW \$5.95

**SODECO 6-DI-**  
GIT COUNTER  
electrically  
resettable;  
60 impulse/sec count coil  
and reset coil both 24 V  
DC 83 ohms. 1-7/8x1 1/2x1 1/2  
x4 1/2; #RG266, NEW, \$8.95

**RIGHT ANGLE**  
DRIVE vernier  
control, 1 1/2"  
dia. dial, w/  
lock & coup-  
ling f/1" shf  
3-hole mtg. #TU-10RA, \$3.50

## ARC-5 BOXES

**BC-450 RECEIVER CONTROL f/**  
tuning upto 3 receivers.  
W/dials 190-550 KHz, 3-6  
Mhz, & 6-9.1 Mhz; CW-off  
-MCW switches, volume con-  
trols, and phone jacks.  
2 1/2x5 1/2x3, 3 lbs. Unused \$8.

**BC-496 DUAL RECEIVER CON-**  
TROL for SCR-274/ARC-5 re-  
ceivers; tuning dials for  
3-6 and 6-9.1 MC, volume,  
etc. 2 lbs sh. Unused \$7.95

**BC-451 TRANSMITTER CONTROL,**  
for one to four Command  
xmitters; built-in key,  
mode, mic jack. Unused \$5.

## AUDIO FILTER

**F-90 AUDIO FILTER,** reduces  
interference in CW and au-  
dio signals for receivers.  
Provides sharp null at  
approx 1020 Hz in voice  
mode while frequencies near  
1020 Hz are passed in  
"range" mode. Response can  
be broadened by placing  
variable resistor from in-  
put to output. 5.8x2.5x3.8  
3 lbs sh. Used, \$3.95  
CONNECTOR for F-90, \$2.50

**BC-366 JACK BOX**  
switch "Comp-Lai-  
son-Command-Inter-  
Call", Increase  
Output pot, 2 phone jacks.  
3.3x4.8x3, 2 1/2. Unused \$4.95

**SPDT VACUUM**  
RELAY ASSEMBLY  
antenna trans-  
fer relay from  
Collins 180L3 an-  
tenna tuner; coil  
28 VDC 38 ohms.  
0/a 5x6x2.3, 3#.  
#K712/180L3, used, \$19.95

**MAR CONTROL BOX,**  
contains 3-SPST  
switches, two  
phone & mic jacks  
(all waterproof)  
and one dual pot w/dial  
knob. 5 1/2x5 1/2x3, 3 lbs sh.  
#CMX-23429, unused, \$2.00

**SB-327/ARC**  
CHANNEL  
SELECTOR  
24-51.9  
MHz FM  
in 100  
KHz steps  
on 3-digit counter; used  
with RT-294/ARC-44 Tx-Rx.  
3x5.2x4.5, 3 lbs. Used \$15.

**SA-474/AR SWITCH BOX** has  
mini-toggles 4/DPDT, 1/DPST  
and 2 pilot lights w/327  
lamps. 2 1/2x5 1/2x2 1/2. Unused \$6.

**SB-328/AR CHAN-**  
NEL SELECTOR  
for ARC-45;  
12-pos chan-  
nel select,  
tone, volume, 2-pilot light  
w/327 lamps. 2 1/2x5 1/2x4 1/2, 2  
lbs. Unused \$10. Used \$6.

**SB-329/AR SIGNAL DISTRIBU-**  
TION BOX, p/o ARC-44; WRITE

-A REAL BONANZA-  
HAS MANY ITEMS  
YOU CAN USE: 14

"tune to max"  
300 ua meter;  
4-band bandswitc  
& dial assy; 5-  
position rotary  
sw with 1-pos mo-  
mentary; spin  
crank for tuning with 10-  
turn pot; volume control  
w/3-gangs; five 327 lamps;  
Loop switch (L or R momen-  
tary); SPST toggle sw; other  
parts. Originally tuned  
R101/ARN-6 (p 4). May have  
broken wafer switch; 6 lbs.  
#C423/ARN-6 used \$4; 2/\$7.

**AIRCRAFT FUEL FLOW GAUGES**  
3.5" dia type 6007; 26 V  
400 Hz for autosyn; unused:  
ECLIPSE-PIONEER #51E-36B,  
1 to 10 lbs/HR x 100, \$22.  
BENDIX #38B-7-B, 1 to 20  
lbs/HR x 100, \$25.00

**RM-52 Remote**  
Control used  
for radio  
and intercom  
set. Has  
transformer,  
mic & phone jacks. Source  
for Phone Patch project.  
7 1/2x3 1/2x5, 5 lbs. Used, \$4.

**MAILBOX INTRUSION**  
ALARM, hang on door  
knob and set sensi-  
tivity. Sonalert  
sounds when outside  
door touched. Will  
not work on steel  
doors; 9 VDC require  
#DRS-DC, \$2.95 \$5.

## VIBRATORS

**VIBRATORS,** removed f/equip:  
VB-8, -9, -12 or -13 \$3 ea.  
3H6690-15 6 V f/PP-109, \$6.  
3H6690-16 24 V f/PP-112 \$3.  
1M5035 24 V for AM-598, \$3.  
6 VOLT 6-PIN vibrators for  
PP-308, #VIB/PP308-6, \$4.  
PP-68, #VIB/PP-68, \$4.  
KS5566, 12 V 4-pin, \$3.

**BA-398/**  
PRC-25  
ARCTIC  
BATTERY  
PACK,  
consists of 72/1.5 VDC mer-  
cury cells wired to pro-  
duce 2.5 V 400 ma and 12  
to 15 VDC 1.4 A in cloth  
bag. 1977 date codes; un-  
used but LV output weak.  
6 lbs sh. \$4.95 ea 2/\$8.

**20-KEY KEYBOARD**  
5/8" sq business  
keys 0 thru 9,  
CLR, RST, CRED,  
CASH, IMP, SEND,  
RET, CODE, ACCT,  
\*; two buses, one for num-  
bers, other instructions.  
4x4.3, 2 lbs. #ECR4835, \$3.

**RUBBER** 4 lbs #4 \$4.45  
**SHOCK** 6 " #6 .50  
**MOUNTING** 12 " #12 .65  
16 " #16 .75  
24 " #24 1.00  
35 " #35 1.25

OTHER WEIGHTS AVAILABLE.

## M-399 ADAPTER

**M-399 ALIGN-**  
MENT ADAPTER  
for BC-659  
transceiver;  
allows the  
changing of  
crystals as well as the  
alignment of the set with-  
out the use of an external  
meter. Mounts inside the  
BC-659. 2 lbs. \$5.00

M-394 ADAPTER f/BC-620, \$5.

**ART-13 CRYSTAL**  
CALIBRATOR, pro-  
vides 50 KHz  
fundamental  
using 200 KHz  
crystal. Al-  
so 1000 Hz  
tone for MCW  
operation. Tubes  
2/12SL7, 12SA7. 6x5 1/2, 4  
lbs. #XCAL-ART13, \$12.

**AUTOTUNE HEAD** from ART-13,  
Control B multi-turn 0-100  
dial. #23518, unused, \$2.95

**CDA-T CRYSTAL OSCILLATOR,**  
converts 4 xtal-controlled  
channels to 200-500 KHz  
range; less xtals, \$12.95

**TOKIN NOISE FIL-**  
TER 250 VAC 15 A  
50/60 Hz; spade-  
terminals. 2.6"x  
1.8"x1.8. #VG-215F, NEW \$3

**WESTERN**  
ELECTRIC  
385D JACK BOX  
w/ three #224  
jacks and one  
dummy plug  
in 4.6x2.9x  
6.1 wood box. "Collectors  
item" originally used in  
railway telegraph dispatch;  
3#. #4B1611, unused \$16.95

**BOURNS DUAL LINEAR MOTION**  
POTENTIOMETER, 5000 & 500  
ohms +/-10%; linearity  
+/-1%. Shaft threaded 1"  
10-32; 4.75" stroke. 7.6x  
1.3x1.3; 1 lb sh. Unused,  
#140-1069-500, \$19.95

**GOULD NICKEL-**  
CADMIUM BATTERY  
rechargeable vi-  
nyl-covered mul-  
ti-cell rates 12  
VDC 4.0 AH; wire  
leads. 5.9x3.5  
x2.6, 3 lbs sh.  
#GD-NC-124, used, \$14.95 ea

## RECHARGEABLE

**GATES 12 VDC**  
CYCLON BATTERY  
PACK, six 2 V  
rechargeable  
lead cells  
per plastic  
container  
package. Re-  
moved from equip; Checked:  
#0810-0612, 2.5 AH, 8.3x2.7  
x1.4, 3 lbs. \$7 ea; 2/\$12.  
#0800-0080, 5 AH; 5.4x3.1  
x3.6, 6 lbs. \$14 ea; 2/\$25  
#0800-0041, like #0800-0080  
but without case, \$12.00  
2 V 5 AH CELLS only from a-  
bove; 1#. #2V5A-CL, \$2.50  
NICAL SUB-"C" CELLS, 2.5 V  
800 ma per pair; each 1-1/8  
x1" dia. #NC-SC-PR \$2.50/pr  
BA-316/AM WATER-ACTIVATED  
BATTERY, 7.5 V and 114 V;  
5.5x3.3x3.8, 1#. \$1.00

## COCKPIT LAMP

**AIRCRAFT COCKPIT**  
EXTENSION LAMP  
Type B-7; black  
plastic lamp on  
5.5 ft spring  
retractable cord  
and uses stand-  
ard 2-contact  
auto bulb. Has  
dimmer & ON-OFF  
switch; 2 lbs. Unused \$6.95

## DISCONNECT KIT

**HAF-COR's QUICK**  
DISCONNECT KIT.  
easy hook-up of  
accessory power  
leads; includes  
mated pair two-  
conductor con-  
nectors & four  
3M #558 crimp  
connectors f/#18-#22 wire.  
NEW \$1.25/kit; 5/\$6.00

**TYPE B-7 INTER-**  
VALOMETER, used  
with aircraft  
cameras to set  
intervals be-  
tween exposures.  
0-80 dial set,  
3-digit expos-  
ure counter and  
buttons for RE-  
CYCLE, START, STOP, SINGLE  
EXPOSURE. Requires 24 VDC  
75 ma; 5x7x4.8, 10 lbs sh.  
Gov't-reconditioned, \$12.95

**FAIRCHILD**  
SHUTTER  
as used  
in 12" FL  
aircraft  
cameras;  
90 mm dia  
shutter  
has keyed  
shaft for  
motor but can be tripped  
manually. 132 mm dia lens  
ring; o/a 9.3" dia, 9 lbs.  
#SH-12EFL, \$14.95

## TUNING METER

for security  
door alarms;  
includes 500  
ua 1.75" m-  
eter, trans-  
istor meter  
amp, 22.5 V  
battery, 3 test leads and  
instructions. Adapt to other  
test uses! 4x2.9x1.8, 2  
lbs sh. #TM-LC75 NEW \$5.95

## 8 OHM SPEAKER

**LS-445 4" SPEAKER**  
ruggedized 8 ohm  
2 watt PM type;  
300-7000 Hz re-  
sponse. P/o LS-  
166 loudspeaker;  
3 lbs. Used \$7.95

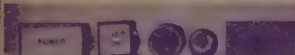
**BB-51 BAT-**  
TERY 6 V.  
2.75 hours  
thru 30 ohm  
load cells.  
Dry charge.  
1 1/2x3 1/2x7/8,  
3 oz. \$1.50

**BB-52, same**  
as BB-51 except 36 V. 3 A.  
thru 1200 ohms. \$1.00 ea.  
BB-208 BATTERY PACK, con-  
tains BB-51, 3/BB-52, \$3.

MINIMUM ORDER \$5.00



## PUSH-TO-TEST



PUSH TO TEST INDICATORS WITH MARKINGS ALSO HAVE CLEAR & AMBER LENSES

KORRY MFG., ALL UNUSED.

KORRY 260 Push-To-Test INDICATORS, DOUBLE LAMPHOLDER WITH MINIATURE BAYONET BASES. 1 1/2" x 3/4" x 2 1/2" H. NEW. CHOOSE FROM THESE LENS INSCRIPTIONS:

POWER SUPPLIES, 28 VDC. \$1 EA, 3/\$2

KORRY 260 indicators with rocket launch-related inscriptions: UNLOCK, TESTING COMPONENTS TEST POWER ON, HEATER 1-2-3, CENTER, IN OVERFLOW, IGNITER LINKS IN UPPER LEVEL, 100% LIQ OXY, LIQ OXYGEN FINE, FUEL TANK PRESSURIZED, COOLANT FILL, 40 C THERMO-STAT, NOSE CONE BATTERIES, LOX THROT VALVE HEATER.

Price: 75¢ ea or 4 for \$2.

LAMP HOLDERS for 327 lamps 3/8" HOLE MTG. FLAT TOP LENSE 3/8" DEEP, WHITE LENS NUMBERED 1 TO 9, YELLOW ("MAX"), (#8 sold out) SPECIFY. #6210-617-0934, 39¢ EA. #327 LAMP FOR ABOVE, 39¢ TINY 28 V NEON INDICATORS, 1-3/8" long X 3/8" dia; NEW #3495 clear lens w/"B" 3/31 #3496 " " w/"7" 3/31



## COLLECTOR BULBS

Unusual old air-craft and projection lamp bulbs; nice glass and "simple but elegant" filaments like old radio tubes. With mogul base; may or may not be work: WESTINGHOUSE AVIATION 500 W 230 V (pic 1), 9.8H"x4.8" d; #W5C-230, \$9. WESTINGHOUSE ON-COURSE BEACON (pic 2), 500 W 125 V T20 bulb. 9"Hx2.5" dia. #W-OCB-2, \$6.00 EDISWAN PROJECTION (2) 6-8 A 200 W; 5.3x1.4" dia. \$9.00 T-8 PROJECTION BULBS (like pic 2), 200 W 3.4"Hx1" dia: GE #PH/200T8SC, \$2. RADIANT mfg #R200/TCC8, \$2.00 GE PHOTO MICROGRAPHIC (pic 3) 11 V 30 amp 2-prong base; 6.3"H x 2.6" dia. #GE-PH-MI, \$5.00

## MINIATURE LAMPS

STK #	TYPE	V.	A.	BASE	BULB	EA	Per 10
#14 flashlight		2.47	.3	cand sc	G-3 1/2	.30	\$2.00
#382		14	.08 min	flanged	T-1 1/2	.35	2.50
#327 grain of wheat		28 v	0.04 a		T-1 1/2	.39	3.00
#511		2	.25	min sc	G-6	.20	1.00
1004 auto type		12	.94	DC bay	B-6	.25	1.50
NE-48/991 neon		115	.25	DC bay	T-4 1/2	1.50	12.00
NE-51 neon		115	.25	min bay	T-3 1/2	.40	3.00
#24-68M		24	.68	DC bay	B-6	.25	1.50

## SEALED BEAM

MARINE TYPE 600 WATT 28 VOLT GE Q600 PAR 56/1 SCREW TERMINALS PRICE: \$6.00 EA. WRITE FOR 100 LOT PRICE.

GRIMES LAMP ASSY. #4725-24 WITH 327 GRAIN/WHEAT BULB. 6220-333-5827 59¢ EA. 2 FOR \$1



SUB-MINIATURE NEON PILOT LIGHT ASSEMBLY. FLUTED 5/16" DIA. CLEAR JEWEL. BASE IS FEMALE PART FOR A THREE PRONG PLUG WITH 1/16" DIA. HOLES IN ISOSCELES TRIANGLE PATTERN. MOUNTS IN 3/8" HOLE. 0" TO 3/8" SURFACE CLEARANCE. 1 3/8" LONG. INCLUDES BULB. Used. 110V. PIL007 \$.25 5/\$1.00

SUR-MINI DIMMER LIGHT with green jewel; T1-3/4 single contact bulb required. 1-3/8" lg; mount in 7/16" dia hole. #5221/0673, \$.65

PILOT LIGHT for single contact mini-bayonet bulb. Clear smooth stovepipe 5/8" dia jewel; o/a 2-1/8" long. Less bulb. #PIL008, \$.50

PILOT LIGHT similar to #PIL008 except 1/2" dia smooth red jewel (not "stovepipe") #86-1179, \$.50

LARGE DIMMER PILOT LIGHT for double contact candelabra bayonet bulb; 1" dia white smooth white jewel. O/a 3" long; fits in 1" dia hole. #504-1632, new, \$.75

PILOT LIGHT for single contact candelabra bayonet bulb; 1" dia red-faceted jewel, O/a 2-3/4" lg; for 1" dia hole. #PIL003, \$.59

PHELPS-DODGE MAG-NET WIRE, 31 AWG on 9 to 10 lbs spools; approx 20000 ft/spool. #PD-MW-31, \$2.40 per lb X spool wt. ESSEX 37 AWG MAGNET WIRE, 2 lbs/spool; approx 5K ft. #61211FQ, NEW, \$10.95 \$8.50

LIGHT INDICATOR FUSEHOLDERS f/3AG fuses; 1.6"D behind panel. O/a 2.9"; used: #FU-HKX, 22-33 V amber, \$2.

## INDUCTORS

FERRITE POT CORE INDUCTORS, PC mount; 7/8x3/4" dia. NEW. 123-177 mH, #NW243, \$1.50 600 mH, #404-3-2, \$1.50

TELEPHONE PICK UP COIL used in modem data coupler; no specs. 5/8x1 1/2" dia #403-4 \$1

COMMAND XMIT-TER ANTENNA COIL for 5.3-9.1 MHz range. 24 turns wire around 2" dia X 3" ceramic form; with mount brackets but no contacts. #6035MB \$6.

CERAMIC COIL FORM, f/ART-13 xmitter; grooved f/43 turns #14 wire. Vertical mt; 5"Lx 2.5x2. #L113/ART13, \$2.00

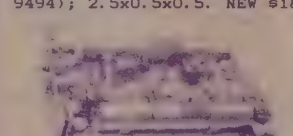
\*\*\*\*\* BC-348Q RECEIVER IF COILS 2nd IF 9A1953 #148 3.00

## 100 W LO-PASS

100 WATT LOW PASS FILTER for comm- dial transceivers; sharp cut-off approx 40 MHz 5.5x2x1.3 aluminum box with two SO-279. #LFF-40M, \$5.95

## COLLINS FILTER

COLLINS #F250-A85 (526-9049 -009); for RT-311/ARC-38. 3.5x1x0.9; NEW, \$14.95 #F300-25 (526-9311-000); 3.5x0.8" dia. Used, \$7.50 COLLINS #F455-FA05 (526-9494); 2.5x0.5x0.5. NEW \$18



COLLINS CHANNEL MODEM CIRCUIT BOARDS each with two 6"x1" dia mechanical filters plus other parts such as transformers, chokes, pots, etc. 9.5x6, 2". Used: #522-5243 v/two F100-28 (526-9463) filters, \$7.50

## FLUTED KNOBS



TCS SPIN KNOB & CRANK, 1-5/8" dia fluted knob w/ 7/8" crank extension; 2" high handle. \$1.50

LUXITROL KNOB, 2-3/8" dia. w/pointer; fits 3/8" dia. shaft, \$1.50

ARMY SPIN KNOB, retractable crank f/beveled top-screw shaft. 1.5" dia; for RT-70 or GRC-106. #2313, NEW, \$5.

## ALCO KNOBS



ALCO KNOBS, high quality, modern fluted knobs with brushed aluminum inset: fit 1/4" dia shaft. NEW:

#AL-KN20, 2" diox0.8"H \$1.50 #AL-KN8P, 0.8" dia x0.5" H; pointer, f/slot shaft 9.45 #AL-KN6, 0.6" dia x 0.4"H for 3/16" shaft, 4/\$1.00 ALCO KNOB KIT #2, includes 2 ea AL-KN20 & KN6; 4 ea AL-KN8P. #2-AL-KNT, \$3.25

AUDIO KNOB SET five aluminum 0.7" dia x0.8"H ribbed knobs f/ 1/4" slot shaft #RT-7100, NEW, \$2.50/set

DUAL CONTROL KNOB SET, lower 0.9" dia x 0.7"H section takes 1/4" dia shaft; upper 0.7" dia x 0.7"H knob takes 3/16" shaft. #DC-KN-ST, NEW \$1.25 #KN57, Single knob matches DC-KN-ST; 0.7" dia x 3/4"H for 1/4 shaft, used, 2/\$1.

## SPIN KNOBS

2" DIA. METAL FLUTED SPIN KNOB FOR 5/32" SHAFT. #KNB009 \$1.79

2 1/2" DIA. SPIN KNOB. METAL. TAKES 3/16" SHAFT. #8089 NEW \$2.00

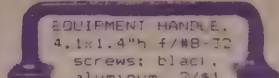
MAKE ANY FLAT KNOB A SPIN KNOB ADAPTER WITH 3 HOLES, TO FASTEN TO YOUR KNOB, WITH SPIN GRIPPER #225816-3 \$1.00

1-5/8" DIA. METAL SPIN KNOB f/ 3/8" SHAFT. URC#KN02, \$1.50

1 1/2" DIA. FLUTED KNOB w/ 1 1/2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN04, \$.50

1-5/8" DIA. FLUTED KNOB w/ 2" SKIRT; BRASS INSERT FOR 3/8" SHAFT. URC#KN03, \$.75

Brown 1" dia x 1 1/2" high knob for 1/2" shft. #KNB025, 2/25¢



MATCHED KNOBS, rounded edge w/4 sets of 4 hash ridges. Looks like old Hammarlund. #E5168 2 1/2" \$3 #E5570 1 1/2" \$2

HALLICRAFTERS with big 1 1/2" dia; arrow & grip bar. #H81014 new \$1.50

## BAR TYPE KNOBS

BAR TYPE BAKELITE KNOB FOR 1/2" SHAFT. 1 1/2"x3/4"x5/8". SET SCREW TYPE. #KNB012 \$.25

GRC KNOBS f/Army radio sets fit beveled top screw shaft OD green; 7/8" dia skirts: #KN-GRC-10, 1"L grip, \$.50 #KN-GRC-14, 1.4" grip \$.75

RECTANGULAR BAR TYPE BAKELITE KNOB 1 1/2"x3/4"x5/8". WITH BRASS INSERT FOR 1/2" SHAFT. SET SCREW TYPE. #KNB014 \$.25

Pointer knob with brass insert for 1/2" shaft; 1 1/2"x1 1/2". #KNB026 25¢ ea

Bartype bakelite knob with pointer. For 1/8" shaft; vertical set screw. 1 1/2"x5/8"x3/4". #KNB016 4/\$1.00

Rounded bar style knob, 1-1/8" long x 1/2" across x 1 1/16" H. Brass insert f/ 1/2" dia sh. #KNART13 3/\$1.

BAR KNOB w/ 1.5" dia metal skirt; "arrow" on skirt 90 to bar. Brass insert for 3/8" shaft. #BKN-TCS, \$.50

SPIN KNOB & CRANK, fluted 1-3/4" d X 1"H black plastic w/0.5"H metal crank; marked "Kc" or "Mc". #KN-FLR, \$3.

DARK BROWN fluted plastic 1" dia X 0.5"H f/ 1930's & 40's radios. #KN-DB1, 3/\$1.

1" dia plastic knob with 1 1/2" dia skirt calibrated alphabetically A-B, ..Y-Z. Aluminum skirt; f/ 1/2" shaft. #5312 NEW \$.50 ea

EQUIPMENT HANDLES brushed aluminum

5/8"W flat top. 2"Hx5.3"L; B-32 tapped. Amatom mfg.; #ALH-5-2, NEW, \$3 per pair.

FLUTED 2-3/8" dia knob with 3" dia skirt; brass insert for 3/8" dia shaft; black. #KNB-863233, \$2.00

FLUTED 1-1/2" dia knob with 2" dia skirt; brass insert for 1/4" dia shaft; black. #KNB-862152, \$1.00

2" TUNING KNOB black w/chrome-finish trim. Metal insert f/ 1/2" d shft. #ROB-B/C \$1.25

## HORN

FARADAY 48 VDC 100 ma HORN, made for Bell Telephone; makes loud, penetrating sound w/screw-driver volume adjust. Steel construction; recess mount. Front size 4-4/8x1.25; 1.25" panel depth. 3 lbs sh. #HS-12077L2, NEW, \$5.95

SPRAGUE JN17-495082 4x30 AMP 277/480 VAC, 4x4x4.75 plus lug length; 5 lbs sh. #J2, \$10.00

CORCOM #F2609 2x20 amp 115/230 VAC 50-60 Hz; 5"Lx1.5"Hx4"W, 2 lbs. NEW, \$5.95

## EQUIPMENT GLIDES military

quality 2"W x 18"L chassis slides have 21" travel; load rating approx 100 lbs. 6 lbs sh; #GL-1821, used, \$10 \$7.50 per pair.

ADJUSTABLE ALUMINUM SHOCK-MOUNT WITH FOUR 12-3 LBS. SHOCKMOUNTS. PERFECT FOR SMALL POWER SUPPLY, AMPLIFIER OR OTHER GEAR. FITS

5-1/8"W X 6 1/2" TO 7 1/2" DEEP UNIT; 2" HIGH. SH WT: 3 LBS. #MT-569A/ARA, UNUSED, \$2.50



## MICA CAPACITORS

G-SERIES TRANS-MITTING CAPACITORS, used-good or unused as available.

G1-type, 2.3"H x 2.8" dia;  
3 lbs. \$12.50 \$7.50 ea  
KV MFD KV MFD  
1.0 0.04 6.0 0.0001  
1.5 0.08 6.0 0.0002  
3.0 0.02 6.0 0.00024

G1, 6 KV 0.0039 mfd, \$12.95  
G2, 3.5"Hx3" d1, \$18.50 \$12  
2.0 0.03 10 0.0002  
2.0 0.045 20 0.00005

G3, 5"Hx4" dia, \$22.50 \$18.  
2.5 0.15 20 0.00015

G4, 5"Hx5.8" d1, \$29.50 \$30  
4.0 0.1 6.0 0.0373

PLASTIC CAPACITOR, 0.02 mf  
120,000 WVDC; 17.5"Hx6.3"x  
4.5", 18 lbs sh. \$150 \$120.

HV CAPACITOR  
ASSEMBLY, two  
0.8"Hx0.8" dia  
capacitors on  
bracket marked  
"15 KV WDC 500 PF"; great  
for your high voltage  
projects! O/A 2x3x2.3; NEW.  
#CAP500-15KV \$2.25 ea, 3/\$5

## XMITTER COILS

used in 400 W  
transmitters;  
4.5" dia. T-4  
type has nine  
banana jacks;  
C-type five  
jacks. Used/  
unused as available; 2 lbs:  
#T4-1540, 2.0-3.5 MHz, \$5.  
1548, 5.2-7.2 ", \$5.  
1549, 7.2-9.2 ", \$5.  
-389A, 3.5-5.7 ", \$5.  
-447B, 8.0-11 ", \$6.

## TRAVELING WAVE TUBE

ITT D-2013 CW TWT, 5 watts  
33 db gain, 8.0-9.6 GHz;  
6.3 v. heater. 12x1 1/2" dia.  
3 lbs. sh. Unused, \$45.00

RCA 4012/All157 TWT, 2.0-  
4.0 GHz, 36 db min., 20 MW  
min. 15x1 x 3 1/2"x 1 1/2".  
4 lbs. sh. Unused, \$40.00

## MICROWAVE

MICROWAVE DEVICES, used:  
SPERRY #D4402-2 ISOLATOR  
4.4-5.0 GHz 1 db insertion  
loss; 15 db min isolation.  
N male & female conn. \$14.  
MICROLAB #HR-SON DC IN-  
BLOCK, 2-8.5 GHz, \$7.95  
MICROLAB #WHZ-10T SIGNAL  
SAMPLER, 50 MHz-12 GHz;  
reactive T-adaptor TNC (m)  
to TNC (f) to BNC (f), \$8.  
MICROLAB #TA-SMT TNC (m) 50  
ohm termination, \$6.00  
MICROLAB #HA-A64 HIGH PASS  
FILTER, 2 GHz, unused, \$12

TCS VARIABLE  
CAPACITOR, 2  
SEC. 10-360  
MMF, ONE SEC.  
10-360 MMF,  
3 BAND CALI-  
BRATED DIAL 4" 1.5 to 12 MHZ  
SIZE: 7x3 1/2x3 1/2; WT: 10 LBS.  
#881 \$3.95 USED

TUNING CAPACI-  
TOR F/RT-176/  
PRC-10, 38 TO  
54.9 MHz; 5-  
GANG, 5-33 PF/  
GANG. WITH 1 1/2" AND 5/8"  
DIA. GEARS; 3/16" DIA SHFT.  
1 1/2x1-5/8x4, USED, \$4.95

RBF-3-14A164, 10-40mmf gap  
0.04". 2KV. 3x2 1/2x2 \$2.95

HAMMARLUND  
VAR. CAPACITOR  
20-90 pf 0.05"  
spacing. Sil-  
ver-plated,  
0.04" thick.  
plates. Right  
angle worm and split gear  
drive. Shaft 3/8" x 1/2" dia.  
4x3 1/2x3 1/2 #446-6571 \$9.95

VARIABLE  
CAPACITORS,  
removed f/  
T-195/GRC  
transmitter.  
#0-222/T-195, 25-485 pf  
one sec.; 25-437 pf the  
other. 0.03" air gap. With  
gears 1 1/2" dia. and 5/8" d.  
4x3 1/2x4 1/2 overall. \$4.95  
#0-221/T-195, 13.5-77.8 pf  
one section; 17-99.6 pf the  
other. 0.094" air gap. 2 1/2"x  
1 1/2" dia. shaft. 5x1 1/2x3 1/2  
overall, 2 lbs sh. \$3.95

3-GANG RECEIVER-TYPE, 20 to  
525 pf/section; shaft 3/4"x  
1/4" dia, O/A 4x1.5x1.8.  
#ASP-7719, NEW, \$6.95  
3-GANG, 15-160 pf/section,  
0.02 air gap; 1/2" dia shaft  
1 1/2x4 1/2x1 1/2. #3TH160, \$3.95

BC-624 RECEIVER  
R.F. TUNER ASSY  
100 - 156 MHz  
A.M. W/VARIABLE  
CAP., COILS, TUBE  
SOCKETS, OSC.  
SEC. P/O SCR-522  
5x5x5; WT: 7LBS  
22K11150, unused, \$5.95

4-GANG  
VARIABLE  
CAPACI-  
TOR, 20  
to 535  
pf per section, 0.03" spac-  
ing; shaft 0.3"x0.3" dia.  
O/A 6.9x1.9x3.2, 2 lbs sh.  
#4G-535, used, \$9.95

TCS Rx NOISE LIMITER KIT w/  
12H6, ceramic switch, resis-  
tor & capacitor. NEW, \$3.00

PLUG-IN TUN-  
ING COILS for  
BC-230 trans-  
mitter; 2 lbs  
Used, \$8 each

#C-382, 3200 to 4000 KC  
#C-433, 4000 to 5000 KC  
#C-384, 5000 to 6200 KC

## TUNING COILS

PLUG-IN TUNING COIL SETS  
for RU-18 & -19 receivers;  
3 lbs sh. Unused:  
RANGE D, 850-1330 KHz, \$10.  
" E, 1330-2040 KHz, \$9.  
" H, 4000-6000 KHz, \$8.  
" K, 9050-13575 KHz \$7.

## TRANS. CAPS.

DUAL 4-30 MMF 1000 VDC 1 1/2"x  
1 1/2"x2, SHAFT 1/2"x2 P/O BC-640  
CARDWELL 430/1M REM \$2.95

DUAL 5-25 MMF 2000 VDC 1 1/2"x  
1 1/2"x4, SHAFT 1/2"x2 P/O BC-640  
CARDWELL 525/2M REM \$3.95

DUAL 4-20 MMF 2000 VDC 1 1/2"x  
1 1/2"x3 SHAFT 1/2"x2 P/O BC-640  
CARDWELL 420/2M REM \$3.95

Single 12-65 pf, 0.06" gap;  
3/8"x 1/2" dia shaft, o/a 3/4"x  
1 1/2"x2 1/2. #CARD-427B NEW \$5.

BC-624/522 RECEI-  
VER, 3 GANG 6-36  
MMF EACH SECTION  
WITH SLUG TUNED  
TRIM. SHAFT 5/16  
STK#3D9036V  
SIZE: 4 1/2x2x3 1/2; 1 LB. \$1.50

Single 7-26.3 pf, 0.06" air  
gap; shaft 1/2"x 1/2" dia, o/a  
2x2x1 1/2. #C287/T235, \$2.95

JOHNSON #155-2-2, 8-54 pf  
2 KV; 1.3x1/4" dia shaft,  
o/a 3.6x2x2. NEW, \$5.95

SINGLE GANG  
20-400 pf  
0.02" gap;  
ceramic in-  
sulated.  
3/4x1 1/4" d-shaft; o/a 4x1.6  
x1.8. #C1003/T195, used \$6.

MILLEN NEUTRAL  
IZING CAPACI-  
TOR, 2-gang,  
each 7 - 25  
pf; 0.0625"  
spacing. 1/2"x1  
1/4" dia shaft; o/a 4.3x2  
x1.5. #23925, NEW, \$4.50

AIR VARIABLE  
CAPACITORS from  
BC-191 tuning  
units; 0.06"  
air gap:  
#T7660443-1 10-116 pf; 3.8"x  
1.8, 1/4" dia shaft, \$5.95  
#P7761569-3 11-66 pf 3.3x2.8  
x2.3, 1/4" dia shaft, \$3.95  
#P7761569-5 15-77 pf 3.3x2.8  
x2.3, 1/4" dia shaft, \$4.50  
#T7660443-8, 8-26 pf, 5/8"x  
1 1/4" dia shaft; O/A 1.8x  
2.8x3, 2 lbs. Used, \$3.95

PRECISION  
CAPACITOR AS-  
SEMBLY from  
LM frequency  
meter (pg 33)  
11 to 167 pf  
with vernier  
tuning. LM  
unit shipped  
less tubes, xtal, lamps &  
cal book; 12 lbs sh.  
#LM-PVC, used, \$12.00

TU-53  
OSCILLATOR  
PLUG-IN  
ASSY. FOR  
BC-610  
TRANSMITTER

FREQ. RANGE 8-12 MHZ. CONT-  
AINS VAR. CAPACITORS WITH  
SHAFTS 140 MMFD, 190 MMFD.  
2/CERAMIC CAP. 1/MICA CAP.  
4/R.F. COILS, 2/RES. 1/OPDT  
switch, dial, and two knobs  
Rear plugs are broken. 2x8 1/2  
x4 1/2, 4 lbs sh. Used, \$3.95

MAR TRANS-  
CEIVER uses  
single xtal  
channel in  
2.3 to 4.5  
MHz range, 200 MM output.  
In waterproof black plastic  
case; mic and headset cut-  
off and not available. With  
tubes 3/384, 2/174, 1R5, &  
155. Requires 67.5 VDC 3 ma  
135 VDC 19 ma, 1.5 V 30 ma.  
8.8x2.8x7.8; 8 lbs sh.  
Used-AS-IS with book, \$6.95

RECEIVER STYLE  
VARIABLE CAP-  
ACITORS, 500 V  
spacing; 1/4"  
dia shaft. 4x1.8x1.5, 1 lb,  
2-GANG, 18-90 & 10-275 pf;  
2"L shaft. #97400, \$2.95  
3-GANG, 2/20-365 pf & 17-  
175 pf; #5740, \$4.50  
1-GANG, 15-325 pf; 1.4x1.4  
x1.3. #512-001, \$2.50  
2-GANG, 25-90 & 40-210 pf;  
1.3x1.3x1.5. #900229, \$2.

#66972, 2-gang, 9-50 pf &  
10-100 pf; 1x1x3/4, \$1.25

#074-050J-2, 8-20 pf 3/4"x  
1/4" dia shaft, \$1.25

Dual 5-15mmf, ceramic, w/fric-  
tion gear to hold setting.  
0.04" spacing. 2 1/2x1 1/2x1 7/8 in  
1 1/2 in dia shaft. coil & gear  
removeable. #358-3164 \$1.95

#KS21146L1, 3-  
GANG, 7-60  
PF/SEC. 0.03"  
GAP. O/A 5 1/2x1 1/2x1 1/2 \$3.95

GLASS PISTON CAPACITOR  
#VC-306, 30 pf, 2x1/4", \$1.

#3D9025V-99 TRIMMER, 3.5 to  
25 pf; 1.5"L x 0.25" dia  
shaft; o/a 2.3x1x1.3, \$1.25

SINGLE 10-100 pf, 0.02"  
gap; 1 1/2"x 1/2" dia shaft, o/a  
2 1/2x1 1/2x1 1/2. #3D9100V \$1.95

## AIR PADDER CAP

ALL PADDER CAPS.  
REQUIRE SCREW-  
DRIVER ADJUST.

ES614178 4-18 pf \$6.00

657-J3 8-55 pf 79¢

SEL72265-2 8-32 pf 59¢  
3D9011V-7 5-14 pf silver-  
plated Hammarlund, 89¢

#C2/R174, 5-42 pf trimmer;  
1x1/4"d sh. 1.5x1.3x1.5, \$1

#0853/R174, 2-11 pf screw-  
driver adj; 1 1/2"x 1/2", \$0.50

#3D9006V-7 DIFFERENTIAL, 3-  
6 PF, .045" GAP; 1 1/2x1 1/2,  
1 1/2x1 1/2 D. SHAFT. NEW, \$1.95

JOHNSON #160-102 TRIMMER.  
1.5-5.1 pf; 3/16" shaft \$7.75

SINGLE GANG  
20-245 pf  
0.035" gap;  
gold-plated  
rotor/stator.  
1x1/4" dia shaft; o/a 3x1.8  
x2.5. #C107/778, used \$6.95

COMMAND RECEI-  
VER VARIABLE  
CAPACITORS,  
3-GANG, TRIM-  
MERS & GEARS.  
2 1/2x3x4 1/2; 3 LB.

#6558, 62 PF, 6-9 MHZ, \$4.

JOHNSON "M" SERIES, 3/16"  
dia slotted shaft; o/a  
1-5/8x3/4x5/8. Used:  
#160-130/30m8, 3 to 32 pf,  
28 plates, \$1.25

ROLLER  
INDUCTOF  
ASSEMBLY  
with 115  
VAC 400  
Hz motor  
drive,  
3.4" lg  
x 1.75" dia coil; 28 turns  
#18 wire approx 14 uH with  
center tap. Designed to re-  
sonate antenna to a trans-  
ceiver's frequency. 4.5x  
2.8x3.8, 5 lbs; used.  
#T301/CU-991, \$14.95 \$12.

## 1820-2520 MHZ

PRESELECTOR, two separate  
cavities having 21 Mhz band  
width and 3 db insert loss  
@ 1715 Mhz. 1N21B crystal  
mixer 120 Mhz output from  
1820-2520 Mhz injection.  
"C" and "ENC" connect. 8x  
3 1/2x3 1/2; 4 lb #PRE/TRC29 \$30.

#3CPR/TRC29 TRIPLE COUPLER  
which fed P-A. 36 db and  
65 db RF outputs; DC out-  
put for P-A meter. 4 "C"  
connections and one 1N21  
connector. 5 1/2x2 1/2x1 1/2 \$7.50

## H-K FM TUNERS

HARMON-KARDEN FM TUNERS with  
AM capacitors--no AM compon-  
ent. 75 ant, 300 IF jacks.  
1/4" dia shaft; 2 lbs sh.  
#00331591A, two MOSFET RF,  
MOSFET mixer, 2-transistor  
oscillator; 3:1 gear. Re-  
quires 13 VDC; 4.8x2x4.8.  
NEW, w/info, \$9.95 \$7.95  
#00234229 (Alps), similar  
features except IC oscil-  
lator & 3-gang capacitor;  
5.5x2.5x3.3.  
NEW \$7.95 \$7.

#FB113013  
(Alps), one FET  
two transistor  
oscillator; req -12 V; 3.5x  
2.3x2.8. NEW \$4.95 \$3.50

OLDER-STYLE TV TUNERS, AM  
(550-1600 KHz) or FM (88-  
108 MHz) as listed:  
AM-FM TUNER w/  
12DT8 tube and  
dial; 3x2x3, 2  
lbs. #2H02, \$5.

HEATH FM TUNER  
with 3-gang  
variable capac-  
itor approx 40  
pf/sec. 2.4x1.5  
x2.5, 1 lb sh.  
#110-30, NEW \$5.00

LC-902 ANTENNA  
INPUT TANK for  
TN-2A/APR-1 tun-  
er for 76-300 MHz  
W/variable capac-  
itor, coil, & 955  
tube socket. 4.5x3, 4#. \$5.  
LC-701 300-1000 MHz OSC, \$5

## OUTPUT NETWORK

OUTPUT  
NETWORK  
part of  
ART-13  
mitter; designed  
for 200  
pf capac-  
itor &  
L112 variometer to provide  
Pi and L matching for 813  
tube. 57 uH coil tapped 2-  
6-15-24-34 uH, coil tap  
switch, and 7-Centralab 850  
HV caps 25 pf, 3/50 pf, 3/67  
pf. 5.5x8x3.5, 7 lbs sh.  
#ONET/ART-13, used, \$12.00



## INSULATORS



STAND-OFF, CROWS FOOT, 7" Hx1 1/2" O. CAST BASE, 2 1/2" CTRS. TOP CAST W/3/16"-20 SCREW

SIMILAR, ABOVE 3" 3.00

FEED-THRU INSULATOR (Fig 2) 1/2" HOLE 7/8" DIA. W/NECK 3" LONG 30¢  
6" LONG 50¢ 8" LONG 60¢  
STOCK NO. 1014-(LENGTH)  
SAME AS ABOVE OVAL TWIN-

PORCELAIN STAND-OFF INSULATORS, SCREW THREADED.

#P-4H-.75D, 8-24 THRD, \$.50

#P-6.75H-1D, 10-24 THRD, .85

THRU-PANEL BUSHINGS W/2.8" 8-32 BOLTS. Used:

#4203, two 0.5"Hx0.9" dia ceramics f/0.3" panel \$.75

#4204, two 0.8"Hx1.1" dia 1 ceramic f/0.5" panel, \$1.

14" LONG SPREADER INSULATOR brown porcelain 14x1.3x1; 3 lbs sh. #361100-192, \$2.75

SPREADER, brown porcelain 8.5"Lx1.8"Hx1"D reinforced 0.5" dia hole on ends; 3". #SPI-85181, \$1.95; 2/#3.

GLASS-BONDED MICALEX STRIPS 10"Lx1"Wx5/8"Th. Five holes .2" dia. #36110-160, \$1.50

IN-88 SPREADER INSULATOR, 2.5"L x0.5" dia; 1/16" holes 4/91

STRAIN/STAND-OFF, isolated #10 end-bolts (1.4" & 0.6" L); 3"Lx2" dia white porcelain. #SP/ST-32, \$1.00

STRAIN INSULATOR, 3x2 1/2" dia; 1/2" to 1/4" dia taper feed-thru core. 1 lb sh. #STR-84 \$.95

INSULATOR STANDOFF FEED-THRU, THREADED ONE END; 3/8" HOLE. ACE-3"Hx1 1/2" \$1.

STRAIN INSULATOR, 4 1/2"x2 1/2" dia; 1" dia core feed-thru 1 lb. #STR-1610, \$1.95 ea

STRAIN INSULATORS Brown porcelain 2.1"H x 2.3" dia with 0.7" dia center holes; 1 lb. #STI-2123D, \$.65 ea; 4/#2.

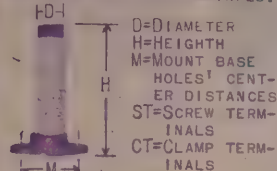
KNIFE SWITCHES, unused:

#KNSW-04, DPST on 1.8x1.5 x0.4" ceramic base. \$1.75  
#KNSW-02, SPDT on 1.3x0.5 x0.1" phenolic base, \$.65

5.3" DIA PORCELAIN BOWL INSULATOR with hardware; silver-plated terminal. 3 lbs sh. Used. #INS-SRA, \$.55

## STAND-OFF 3

STAND-OFF INSULATORS, CROWS FEET TYPE. BRASS AND PLATED BRASS BASES AND TERMINALS.



#B-H3-D1.25-ST3, BROWN CERAMIC; M=2.25" TERM. CAP SIZE: 7/8x1-5/8" DIA. SHPG. WT: 2 LBS. \$2.75

#B-H4-D1.25-ST2, WHITE; M=2.25" TERM. CAP: 1x1-5/8" DIA. 3 LBS. \$3.25

#XW-H5-D1-ST, WHITE; M=2.25" TERM. CAP: 1x1" DIA. \$3.00

#W-H5-D1.25-ST, WHITE; M=2.625" TERM. CAP: 3/8x1 1/2" DIA. 3 LBS. \$3.75

#B-H5-D1.25-CT, WHITE; M=2.25" TERM. CAP: 1x1-5/8" DIA. 3 LBS. \$4.00

#W-H6-D1.25-NTTH, white; M=2.6". No terminal cap but threaded; 2 lbs sh. \$4.25

#B-H7-D1.25-ST, brown, M=2.6". Term cap 1x1-3/4" dia; 3 lbs sh. \$4.75

QUANTITY DISCOUNTS on stand-offs: 10-25 ea (1-type) 20% OFF; 25% (26-99), 30% (100+)

## FLEXIBLE

### COUPLING

CERAMIC FLEX COUPLING #COUN012, 1.3"x1.3" X-style for 1/4" shaft, \$.75 ea  
#COUN008, 2-5/8" dia X 2" for 3/8" dia shaft, \$.85  
#COUN010, 3.5" dia X 1.6", for 3/8" dia shaft, \$1.25

SHAFT EXTENDERS or coupler f/0.25" dia shafts. Slides over shaft with extender shaft on other end. Used: #SH-EXT2, extends 2", \$.75  
#SH-EXT1, " 1.3" \$.50

## AC LINE CORDS

3-COND. GROUNDED equipment cord, 8' #18 wire. Molded plug; black. #FW-30G \$1.85  
3-COND #14 wire, 6 ft gray w/molded plug. #W14-6G, \$2.

3-COND w/business machine plug, fits most Hewlett-Packard equip. Without AC plug; 5 1/2". #HP-30G \$1.50

3-BLADE cord w/AC plug for never H-P & business equip; 6' black. #HP-NS, NEW \$2.50

More DOLLAR-DAZE:

TOGGLE SWITCHES, SPST cut-offs, 5/\$1.00

SLIDE SWITCHES, 2PDT and SPDT, 5/\$1.00

SPST ROCKER DIP SWITCHES for PC board use. Can be soldered or fit in socket. Grayhill mfg. NEW #763B04, 4 sw, \$.75; 5/#3.

SELECTOR SWITCH 15 BUTTON, MAKE ONE BREAK ONE, RELAY RELEASES ALL BUTTONS WHEN ACTIVATED, 115 VAC OR 24VDC Size: 123x7x2; WT: 7 LBS. URC#1524115 NEW \$3.95

## MICRO SWITCHES



SPST MICROSWITCHES 1.9" x 0.6"x1.3", \$.35 ea unless otherwise noted. Normally open=n.o. Norm closed=n.c.

#YZ-RL8 n.c. lever to pin

#YZ-7RDT n.o. button-push

#W2-2RD n.c. button-push

#SW-186 n.c. 0.5"H plunger

MU-SWITCH TYPE D in split dye-cast housing; 0.5" tap conduit hub. 17/8.5 amp 125/250 VAC, unused, \$.75

SPDT, one side n.c.; other n.c. 1.9x0.6x1.3, \$.45 ea:

#BZ-3R104, pin-style

#BZ-RDTC, button-push

#HXY-O-224, lever-toggle

#V3-1, 0.6x1x0.4 size

C-H TRIGGER SWITCH, DPST norm open w/spring-loaded actuator; 12/6 A 125/250 VAC. #CH-TR-DP, NEW, \$2.50

## FOOT SWITCH

3-WAY FOOT CONTROL large "play" pedal switch has two smaller bar switches rated 15 A 115/230 VAC. Wollensack mfg; w/6' cord. 1.5x7x5.5, 2 lbs sh. NEW #FSW-A0548, \$8.95 \$6.95

## TAP SWITCHES

TAP SWITCHES, 120/240 VAC 10/5 amps unless otherwise noted; 2 1/2" dia. Used.

#AHH-230; 2-deck 3-pos and OFF. Cont. turn; 15/10 A. No knob; 3/16" d shft. \$2.25

#AHH-33-10; 3-deck, 3-pos with knob, \$2.50

#AHH-2W-3W 3-pos with OFF. 120/240 VAC 30/15 A (2-wire), 15/15 amp (3-wire). 1-7/8x1 1/2x1 1/2, 2 lbs sh. Used w/knob \$2.50

6-POSITION CERAMIC TAP SWITCH for 100 W BC-375mitter; 2.3x2.3 x1.8, 1 lb. NEW #329605 \$3.95 ea 10 for \$32. 100 for \$265.

3-CONDUCTOR CORD, 8' #16 wire; grey moulded plug. #W16-3C \$1.65  
HEATER CORD type H3J, 3-conductor 7.5' #16 wire; grey moulded R-A plug. #H3J-16 \$2

## PUSH SWITCHES



DPST interlock n.o., (3Z-9825/254), #PSW006 65¢

SPST pull switch, normally open, #PSW007 35¢

SPST normally closed case ground; #PSW008 35¢

SPST normally closed, Grayhill #4002 50¢

2-BUTTON momentary; red breaks, black makes. 3gx 1-5/8x1-1/8; #RB-EM \$1.50

## MULTI-PUSH



SWITCHCRAFT DW-Type, each section DPDT 3 amps AC; 0.5 A DC 125 V non-inductive. Can use T-1 1/2 size lamp. NEW

#67097-506, 9-button Push-on/Push-off; 1x6 1/2x1 1/2 \$7.75

#67091K-506, 9-button interlocked, \$6.50

#67137-506, 13-button Push-on/Push-off; 8 1/2"W. \$9.75

#67131K-506, 13-button interlocked, \$7.95

PROGRAM SELECTOR ASSEMBLY, five rockers each actuate a V3-type SPDT Microswitch. Also six Dialco indicators with 5/8" square inscribed lenses. 3.5x4.8x3, 1 lb sh. #PROG-SEL-V3, used, \$2.50

Cutler-Hammer MINI-TOGGLES, All 6 amp 120 VAC; NEW:

DPDT center-off \$1.50 3/\$4  
3PDT on-on, \$1.65, 3/\$4.25  
4PDT on-on, \$1.75, 3/\$4.50

## SWITCHES



MINIATURE SWITCHES, all new. Black: blk. White: wh.

DPDT momentary, blk or wh button (a); C&K #8221 \$.65

SPDT on-off-on, wh. toggle (b); Alco #M1D106E, 75¢

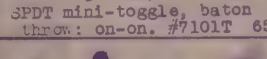
SPDT on-on, blk. rocker (c) JST #MR2-123, 65¢

SPDT on-on, blk. push-type Alco #M3P105D, 60¢

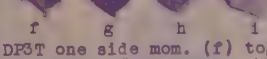
SPDT on-on 1-side momentary blk or wh push; CK8168 65¢

SPST black rockers; not mini Carling #123, \$.60

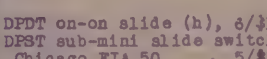
SPDT mini-toggle, baton throw: on-on. #7101T 65¢



DPST one side mom. (f) toggle; Alco #CST-023TA, 2/\$1

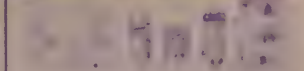


DPST on-on slide (h), 6/\$1. DPST sub-mini slide switch; Chicago EIA 50, 5/\$1.



DPST on-on slide (h), 6/\$1. DPST sub-mini slide switch; Chicago EIA 50, 5/\$1.

## TOGGLE SWITCHES



TOGGLE SWITCHES, some single hole mount, some with moment plate; NEW or REM (removed from equipment).

AIRCRAFT-type TOGGLES, two hole mount, illuminated tip SPST new 5/125 8-15 .65 (momentary norm-closed)

SPDT new 5/125 8-9A .65 (ON-OFF-ON)

SPDT new 15/125 B-1B .75

DPST rem 30/125 C-1 1.25

INDUSTRIAL-type TOGGLES:

SPST rem 8/125 8817K2 .35 (above momentary)

SPDT rem 8/125 ST-42D .35 (ON-ON)

DPDT rem 5/125 ST-22R .35 (momentary)

DPST rem 10/125 ST-52K .40

DPDT rem 10/125 ST-52N .50 (ON-ON)

DPDT rem 10/125 ST-52R .50 (ON-ON momentary)

DPDT new 6/125 T-WB-87 .75 (ON-ON, 1" mount barrel, 1/2" dia white ball cap)

3PDT rem 10/125 6742K5 1.25 (ON-OFF-ON)

4PST rem 15/125 7661K5 1.00

4PDT rem ON-ON 34TS11-3 \$1.

## TEN PUSH SWITCH STRIP EACH D.P.D.T. INDIVIDUAL HOLD OR COLLECTIVE OR RELEASE, NEW 12x4x3/4; NO.4C5231 \$2.25

ROCKER SWITCHES 0319 SPST 39¢ 3 FOR \$1.00

0348 DPDT 59¢ 2 FOR \$1.00

0320 SPDT MOMENTARY BOTH SIDES. 65¢ EA. 2 FOR \$1.20

PUSH BUTTON SELECTOR WHITE BUTTONS, 1 THRU 4 SEPARATE CONTACTS, 5, 6, 7 MAKE 2, 3, 4 RESPECTIVELY w/COMMON. RED BUTTON RELEASES ALL. RATED C 120/240VAC 8A SIZE: 4 1/2x1 1/2x2 1/2; WT: 2 LBS. GE#SP8128-417 UNUSED \$7.55

## LEVER SWITCHES

4PDT ONE SIDE 2PDT OTHER SIDE, BOTH SIDES MOM. #1155 NEW \$2.00

TV-2 tube test Pl lever sw; make 2-break 2. Removed \$2.

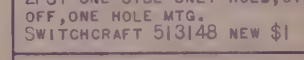
2PDT ONE SIDE, OTHER 2 MAKE, P/O EE-2, USED \$1.00

SPDT make before break and 2/SPST normally closed; single hole mount. Tele-type #129596 (FSN #5930-259-6880), unused, \$1.50

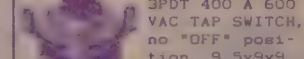
2PST ONE SIDE ONLY HOLD, CTR OFF, ONE HOLE MTG. SWITCHCRAFT 513148 NEW \$1

## 200/400 AMP TAP

3PDT 400 A 600 VAC TAP SWITCH, no "OFF" position. 9.3x9x9, 25 lbs sh. #0279, NEW, \$29.95



3PDT 400 A 600 VAC TAP SWITCH, no "OFF" position. 9.3x9x9, 25 lbs sh. #0279, NEW, \$29.95



3PDT 400 A 600 VAC TAP SWITCH, no "OFF" position. 9.3x9x9, 25 lbs sh. #0279, NEW, \$29.95



## EQUIPMENT BLOWERS



18 VDC 2400 RPM 5-BLADE FAN removed from oscilloscopes; runs well on 6 VDC. 7" dia blade rotation; o/a 8 1/2" dia X 5 1/2" depth. Includes eight single TO-3 heatsinks; 8 lbs sh. #B401/USM, used, \$16.95

DUAL BLOWER, 3450 RPM 1/12 HP 115 VAC 60 Hz 1.1 A GE-motor; 3" inlet, 3 1/2" outlet. w/capacitor; 11x6x6, 10 lbs. #GE-JG284 used \$15.



DUAL 220 VAC BLOWER, 1/8 HP 3450 RPM; approx 450 CFM. Removable frame; 6.5x29x7.5, 40#. #URC683-KP, used, \$15.

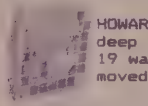
EASTERN AIR TWO SPEED BLOWER, 2800/3200 RPM capacitor-start motor 1/40 HP 0.38 amp 115/230 VAC 50/60 Hz. Mounted on base w/4 mfd capacitor, terminal strips. Approx 150 CFM. Intake 3" dia, outlet 1 1/2" x 2 1/2". O/A 8 1/2" x 11 1/2", 14 lbs sh wt. EAD#B747ML-C, used, \$12.95



FASCO DUAL BLOWER 50 C.F.M. 115 VAC 60 Hz 0.74 amp @ 2800 RPM. Outlets 2x1-5/8. One outlet is parallel to mounting base; other is at 90°, but can be modified as shown in picture. Inlets 2 1/2" dia. Overall 7 1/2" x 6 1/2" x 5 1/2", 12 lbs sh. Fasco type 21, #127S217, unused, \$10.00

5-BLADE COOLING FAN removed from military power supply; 4 1/2" dia rotation. 115 VAC 0.1 amp 3300 RPM; w/capacitor. 2 1/2" D. #FAN-2054, \$4.50

BLOWER/VACUUM, 115 VAC solenoid reverses intake/outtake allowing unit to work as blower or vacuum. 1 1/2" dia hoses; 6x8 dia, 12 lbs. #3M-CFB, \$12. Less solenoid, \$9.



HOWARD 4.5" square 5-BLADE FAN, 5/8" deep aluminum cast frame; 115 VAC 19 watts. O/a depth 2-5/8"; used-removed from equipment. #1175-08, \$7.95

4-BLADE 6" DIA FAN in conical 7 1/2" to 5-3/8" dia X 7" high housing; 115 VAC 60 Hz. Adapt to use as duct fan. 8 lbs sh. #3M/4B-DF, used, \$9.95



FAN-TYPE BLOWER, 115 VAC 60 Hz 20 watts; 4" plastic fan blades. Open frame low-noise motor in metal case-motor-type frame. Approximately 100 CFM. 13x5x2, 5 lbs sh. Howard #1075-3102, used, \$4.50

## HEATSINKS

Clean HEATSINKS, 10.3x4.5x1.3, NEW: #10D1041 for seven 1/4" and three 3/8" dia diodes, \$3.00 #1D1041F flt-bot f/0.75" d diode \$3.50

HEATSINK PANEL has four 10x2-7/8x1 1/2 heatsinks and six 2N3055's on 10 1/2 x 14 panel; 9 lbs sh. #HS-M32, \$12.00

#WE-H1D HEATSINK w/diode approx 100 PIV 25 amp; 5x3x1 1/2. Used, \$2.50

#6T763, 6/TO-3; 6.8x6.3x2.4 upright, 4#, \$5. #2T351-4 with two 1/4" holes for transistors; 2.8x4.5x1.4 flat bottom, 1 lb. \$1.50 #1T441 for single TO-3; 4.3x4x1.1, \$1.75

#3D523-8 HEATSINK, 5x3x1-9/16; drilled for 3 large stud rectifiers (1" dia recesses), \$2.

#2D953 HEATSINK, 9x4.8x2.6, drilled with two 3/8" dia holes. 3 lbs sh. Unused, \$4.25

#THS-88, 2.5x3x1 finned area and 2.1x1.5" flange for TO-3, 9.85

SERIES 680 #.75A-16-1, 1.75" sq x 0.75" H for TO-3, 9.75 ea

## COMPACT AXIAL FANS



AXIAL FANS, 4 1/2" square X 1 1/2" thick; 115 VAC 60 Hz. Removed from equipment; guaranteed.

Rotron MUFFIN or similar; 3-blade 14W \$7.

5-BLADE axial fan in metal frame; 18 watts. Various manufacturers, used, \$9. PAPST #3124F 18 VDC 2 watt or 30 VDC 3 W FAN; 9-blades, 3.5 square X 1" deep, NEW, \$10.

ROTRON BISCUIT or like fan, right angle 1x2" out-take; 115 VAC 60 Hz 16 W. \$12-95 \$10.



ROTRON MODEL SU2G7

Small 3.1" sq X 1.6"D size. Five blade plastic fan in die cast housing. 115 VAC 50/60 Hz 2 lbs sh. NEW, \$12-95 \$9.95



FIVE BLADE COOLING FAN, 4-5/8" dia. rotational no enclosure. Mounting bracket hole centers 5-7/8" apart. 115 VAC 60 Hz. 2 lbs. sh. Airtrol #11-2100, NEW, \$4.95

## DUAL FANS

DUAL AXIAL FAN ASSEMBLY, one 3-blade 14 W Rotron Muffin and one 5-blade 18 W metal Howard Cyclohm 4.5" sq equipment fans on 11x6.8 metal plate. 115 VAC 60 Hz; 6 lbs sh. #2-AX-FN86, used-tested, \$10.95

## EQUIPMENT BLOWERS



200 CFM FASCO BLOWER, 115 VAC 60 Hz 2.2 amp @ 3200 RPM; motor speed increases to compensate for any reduction of air intake. 4.5" dia inlet; outlet 3x3.3. Flange mounting 4.8x4.8; o/a 8x8x8, 9 lbs. #50755-1448, used-good \$10.95

100 CFM FASCO BLOWER, 115 VAC 60 Hz 1.0 amp @ 3100 RPM. 3-7/8" dia inlet; outlet 2.5" x 2.5". Flange mounting 5.1x4; o/a 7.3x7.3x6, 7 lbs sh. #7021-0573, NEW, \$12.95



150 CFM FASCO BLOWER, 115 VAC 60 Hz 1.5 amp 1/10 HP. 4.5" dia inlet; outlet 3.8"x3.4". Has 9.6x9.8 mount plate on intake side and motor start capacitor. Big blower --small price! 12#. #7082-0124, used, \$9.

HOWARD #1175-08-4 BLOWER, 115 V 60 Hz 12 watts; intake and out-take each 7/8" dia. Suitable for quiet cooling/blowing uses. O/a 4 1/2" x 3 1/2", 2 lbs. w/hose, \$8.95

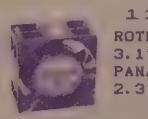
## 10 INCH ROTRON FAN



ROTRON CARAVEL 10" FAN, 550 CFM free air delivery using 3-blade fan with special Feathered Edge for quiet operation. 3.5" deep aluminum housing; self-lubricating bearings. Operates on 220 VAC 60 Hz but will work on 115 VAC at 50% rating; 8 lbs sh. NEW, \$24.95

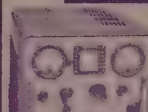
## BOXER FANS

QUAD-AXIAL FAN ASSEMBLY, 8x22.5x2 housing with four IMC Super BOXER® WS2107F fans. Each 4.5"x4.5" 7-blade fan rated 115 VAC 27 W 117 CFM; 13 lbs. #4-SBX-FN, NEW \$32.95



12 VDC FANS ROTRON SPRINT 12 VDC FAN, 1.4 W; 3.1" sq, 2#. #ST1266, NEW \$10.95 PANAFLO MINIATURE 12 VDC FAN, 2.3" sq. #FBP-068-12L, NEW \$8.95

## H-P VHF GENERATORS



HEWLETT-PACKARD 608-Series VHF SIGNAL GENERATORS, AM-Pulse-CW emission; 400 or 1000 Hz modulation. External modulation 20 Hz to 20 KHz, 0 to 95%. Large 3.5" dia meters indicate Percent Modulation and Output Volts-DBM. Require 115/230 VAC 50-400 Hz; 16.4x13.3x21, 72#. \$250

HP-608C, features broad 10-480 MHz range and high output of 0.1 uV to 1 V into 50 ohms; frequency accuracy +/-1%. Reparable, \$215.00

HP-608D, 10-420 MHz range with built-in 1 & 5 MHz calibrator; Reparable w/book, \$250.

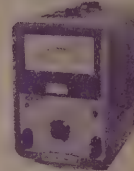
HP-608F, later model covers 10-455 MHz with 0.1 uV to 0.5 V output. Built-in crystal calibrator provides check points every 1 MHz upto 270 MHz and 5 MHz check points above; accuracy +/-1%. 608F has phase-lock frequency control capability if used with HP-8708A Synchronizer (not available). Checked, \$425.

HP-612AR GENERATOR, 450-1230 MHz AM-CW-pulse 0.1 uV-0.5 V out; rackmount, 63 lbs. \$275.

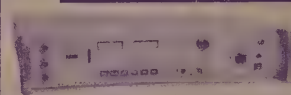
HP-614A GENERATOR, 800-2100 MHz CW-FM-pulse, 0.22 uV-0.5 V out; 70 lbs. Reparable, \$250.

## H-P 400H VTVM

HEWLETT-PACKARD 400H VTVM with wide mirrored scale; 0.0001 to 300 Vrms in twelve ranges, -50 to +60 db. Response 10 Hz to 4 MHz; 23 lbs sh. Used-reparable, \$45.00; Checked, \$85.00 MANUAL, partial repro, \$8.50

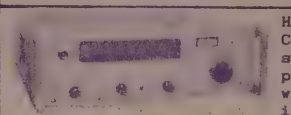


## TRANSFER OSCILLATOR



HEWLETT-PACKARD 2590B TRANSFER OSCILLATOR, usable with HP-5245L frequency counter

with 5253B plug-in (page 30, WS-87 Catalog) to extend counter's range to cover 500 MHz to 15 GHz. Phase-locking allows measurements equal to the external time base used. Fundamental freq range 240 - 390 MHz; internal 10 MHz reference. Also automatic search oscillator, AGC, FM discriminator, and envelope detector for FM deviation measurements. 16.8x3.5x16.3, 28 lbs. Used-reparable \$250.

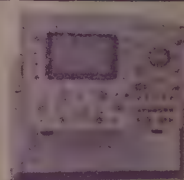


HP-5245L ELECTRONIC COUNTER, popular solid-state 7-digit plug-in counter with HP-5253 plug-in allowing frequency measurement upto 500 MHz. Wide variety of plug-ins offered by HP makes this a very versatile unit. Sensitivity 100 mV; gate 1 uSec to 10 sec in decade steps. Requires 115 VAC 60 Hz; 5.3x16.8x18.3; 36 lbs sh. Used-reparable w/book, \$250.00

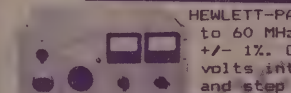
HP-5245L MAINFRAME only, usable to 50 MHz, used-reparable with book, \$156; \$135.

HP-5262A TIME INTERVAL plug-in f/5245, \$100.

HP-1707B DC-75 MHz PORTABLE SCOPE, 10 mV to 5 V/div deflection in 9 ranges, sweep 0.1 us-2 sec in 23 steps; delay 0.1 us-2 sec. Rise-time 4.7 ns or less. Also x10 magnifier, beam finder, & 1 KHz squarewave. 115 VAC or 12-36 VDC power; 34 lbs sh. Used-checked w/book but less front cover, \$295 \$595.



## 50 KHZ TO 60 MHZ



HEWLETT-PACKARD 606A, 50 KHz to 60 MHz AM in six bands +/- 1%. Output: 0.1 uV to 3 volts into 50 ohms, vernier and step controlled. 400 or 100 Hz modulation; built-in crystal calibrator provides either 100 KHz or 1 MHz frequency check points. Other features include constant output and modulation and low distortion. 10.5x19x13.5, 50 lbs. Used-reparable, \$275 \$150. Checked \$380 \$225; CABINET f/606A, add \$15.



## MARCONI FM



MARCONI TF1066B/1 SIGNAL GENERATOR, 10-470 MHz AM-FM in five bands, output 0.2 uv to 200 mv. Modulation 1 KHz or 5 KHz; FM deviation SCALES -20 AND -100 KHz. Requires 115 VAC 60 Hz; 14x19x9, 60 lbs. Used-reparable w/book rackmount, \$425. \$375 add \$15 for cabinet. TF1066B/6, similar to TF1066B/1 except has built-in 1 and 10 MHz crystal calibrator. Used-reparable w/cabinet, \$525.00

TS-418/URM-49, 400-1000 Mhz AM, CW, pulse. Output: 0.2 to 200K uv into 50 ohms. 12x17x13, 70 lbs sh. Used, reparable, \$175.00

TS-419/URM-64, 900-2100 Mhz CW and pulse @ 1 MW max. into 50 ohms. Repetition rate between 40 and 4000 pulse/sec. Delay: 3 to 300 u-sec. 14x17x11, 50 lbs sh. Used, reparable, \$165.



## AUDIO OSCILLATOR

TS-382\*AUDIO OSCILLATOR, 20 Hz to 20 KHz in four bands. Output: 0 to 10 VOLTS ACROSS 1000 OHMS. WITH BUILT-IN 60 AND 400 HZ REED FREQUENCY METER. SIZE: 10x12x18, SHPG. WT: 50 LBS. NET: 45 LBS. PRICE: USED, REPARABLE, \$49.50. CHECKED, \$65.



TS-382F AUDIO OSCILLATOR, MOST RECENT VERSION TS-382. USED, REPARABLE, \$60. CHECKED, \$75.

## 1 - 10 KHz TEST

AN/USM-96 RF POWER TEST SET measures output from 1 to 10 GHz CW, modulated or pulsed. Power input 100 MW to 5 watts using 94CEL (to 1 MW) or 94CEH (to 50 MW) bolometers. Separate CN-540 & CN-541 attenuators extend measurements to 100 MW & 5 W respectively. Has 3.5" dia meters for 0-50 Relative Power and Center Scale Balance. Bolometers, attenuators, MX-2683 bolometer mount, operator's manual included. Requires 115 VAC 50-1600 Hz; 13x13x14, 50 lbs. Used-reparable, \$145.



## H-P WAVE ANALYZERS



HEWLETT-PACKARD 302A WAVE ANALYZER, covers 20 Hz to 50 KHz with operational modes AFC-normal-BFO; 6 Hz selective bandwidth. Resolution: 10 Hz per division. Meter range 30 uv to 300 Vrms full scale in 15 ranges; dynamic range >75 DB. BFO output 0-2 Vrms open circuit. Requires 115/230 VAC 60 Hz; 12.5x20.8 x14.5, 50 lbs. Used-reparable w/book, \$135.

HEWLETT-PACKARD 310A WAVE ANALYZER, 1 KHz to 1.5 MHz with selective bandwidths 200, 1000, and 2000 Hz; resolution 200 Hz per division. Operational modes AFC-normal-BFO-USB-LSB-AM. Amplitude ranges 10 uv to 100 V full scale in 16 ranges. AFC: dynamic hold-in +/-3 KHz min @ 100 KHz; tracking 100 Hz/sec. Restored signal freq max output 0.25 V across 135 ohms. Requires 115/230 VAC 60 Hz; 10.8x16.8 x18.4, 50 lbs. Used-reparable w/book, \$250.

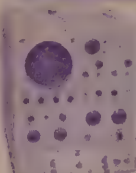


## SOLID-STATE OSCILLATOR



AN/URM-127 SOLID-STATE AUDIO OSCILLATOR, 20 Hz to 200 KHz in four bands. Metered output 0-10 Vrms into 500 or 1000 ohms in 7 decade ranges. Design accuracy +/- .2%; stability +/- 0.5%. Requires 115 VAC 50-70/380-420 Hz. 7.5x13x4.5, 15 lbs sh. Used-reparable, \$65. Checked, \$115.00; MANUAL partial repro, \$10.

## TRANSISTOR CURVE TRACE



TEKTRONIX 575 TRANSISTOR CURVE TRACER SCOPE, displays characteristics of junction and point contact transistors on 5" CRT. Collector sweep 0-200 V-peak with 1 amp current curves; 0-20 V, 20 A curves. Step generator volt increments 10 mV to 0.2 V/step in five ranges; current 1 ua to 200 ma/step in 17 ranges. Vertical plots collector current 0.01 ma to 1000 ma/div, 16 steps; multipliers/dividers extend range 0.001 ma to 2000 ma/div. Horizontal plots collector 0.01 to 20 V/div, 11 steps. Vertical & horizontal plot base volts 0.01 to 0.5 V/div, 6 steps; base current or source volts read from step collector switch. Requires 115/230 VAC 50-60 Hz; 16.8x13x24, 80 lbs sh. Used-reparable w/book, \$250.00

## FM SIGNAL GENERATOR

SG-12/URM- FM SIGNAL GENERATOR, 19.5 to 102 Mhz FM in five bands with deviation ranges 0 to 25, 50, and 100 KHz; 1000 Hz MODULATION. ALSO IF OUTPUTS ON 1.4, 2.515, 2.65, 2.88, 4.3, 4.45, 5.0, 5.35, 15 Mhz, PLUS TWO SPARE POSITIONS. CALIBRATED OUTPUT VOLTAGES: 0.5 UV TO .01 VOLTS (RF); 0.5 UV TO 1.0 V (IF). OUTPUT IMPEDANCES: 10 OHMS (RF); 25 OHMS (IF). WITH 1 Mhz AND/OR 2 Mhz CRYSTAL CALIBRATOR MARKERS. POWER REQUIRED: 115/230 VAC 50-1000 Hz. SIZE: 12x18x12; SHPG WT: 85 LBS. Used, reparable, \$65.00; Checked, \$125.00 MANUAL, partial repro, \$12. TRANSIT CASE \$15.



## 10 KHz TO 50 MHz



AN/URM-25F SIGNAL GENERATOR, covers 10 KHz to 50 Mhz AM in nine bands. RF output: 0.1 to 100K microvolts into 50 ohms; 2 V adjustable across high load impedance. Modulation 0-50%, 400 or 1000 Hz internal. 1 Mhz calibrator; designed accuracy +/-0.05% above 10 Mhz. Requires 115 VAC 50-100 Hz. 11x14x10, 44 lbs. Used, reparable, \$145. Checked, \$210.00

ACCESSORIES available w/purchase of URM-25F: BOOK-partial repro, \$10. DA-109 Dummy Load \$6 CX-2919 Test Lead Adapter, \$7.50 CU-406 Impedance Matcher, 500 ohms up, \$7.50 CU-408 Impedance Matcher, 70 ohms, \$7.50, BNC Cables, 6", \$1.00; 4 feet, \$1.50

## FREQUENCY COUNTER

CP-929/USM-245 FREQUENCY COUNTER, portable unit has seven Nixie display with frequency range of 1 Hz to 2.5 MHz; measures period, frequency ratio, and time interval between two signals. Common controls for Function, Time Base 1 uS-10 sec, and Display Time. Separate A and B controls for Trigger Slope and Level and 1-10-100 AC & DC Attenuators. Requires 115 VAC 60 Hz; 4x16.5x17, 22 lbs. Used-reparable w/commercial TSI-361 book, \$79.50



TS-505/U, ranges 0 to 2.5-5-10-25-50-100-250-500 Vrms plus 1000 VDC scale. Also X1 ohm thru X1 Megohm ranges. Response: 30 Hz to 5 MHz. With AC, DC, and Ohm probes. 9.8x9x6, 17 lbs sh; Used. Repairable, \$20. Checked \$45. MANUAL, partial repro, \$10.

ME-180/USM-116, features 20 Hz to 100 Mhz response (700 Mhz using optional T-connector) and full scale ranges 1-3-10-30-100-300 Vrms plus 1000 VDC. 0.02 to 1000 MA DC ranges; resistance 1 ohm thru 1 Megohm. High frequency AC probe has 6923/EAS2 tube. 7x8.3x9, 21 lbs sh. Used-reparable, \$45. Checked, \$75.00 T-CONNECTOR \$10 w/set. MANUAL, par-repro \$10.



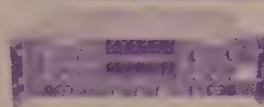
## FREQUENCY COMPARATOR

CM-212/USM-144 FREQUENCY COMPARATOR, used with frequency counters to determine with high accuracy frequencies from 10 Mhz to 12.4 GHz; similar to Hewlett-Packard 540A oscillator. Measures CW, FM, and pulse modulated RF signals. Unknown signal is fed into USM-144 and is compared to a mixed frequency generated from a stable, continuously adjustable fundamental from 100 to 220 Mhz. Difference in the unknown is shown on 2" dia CRT (2BPL) display. Final determination of the input signal made by the zero beat of the fundamental multiplied by the appropriate harmonic. Requires 115 VAC 50-440 Hz; 13x19x13, 65 lbs sh wt. Used, reparable, \$99.50 TRANSIT CASE \$10 w/purchase. MANUAL \$10 w/set



## ENVELOPE DELAY TEST

SIERRA 340B ENVELOPE DELAY TEST SET, solid-state unit designed to cover CCITT and WE voice and group carrier multiplex system frequencies. Separate 6-digit readouts for delay in u-sec and frequency in KHz. Carrier freq 300 Hz to 110 KHz in two ranges; delay 0-20K usec (25 Hz modulation), 0-2K usec (250 Hz mod). Input/output Z select 75-135-600-900 ohms. Transmitter output -20 to +10 db; receiver -45 to +20 db. No further info. Requires 115/230 VAC 60 Hz; 5.3x19x15.8, 32 lbs. Used-reparable, \$195.00



## 3.7 TO 8.4 GHz GENERATOR

POLARAD 1107 SIGNAL GENERATOR, 3.70 to 8.40 GHz CW, square wave, and sawtooth FM; has three place mechanical digital tuning. Output attenuator continuous; y tunable from 0.1 u-v to 300K uv. Internal square wave and FM rate 800-1200 Hz; FM sweep adjustable over 5 Mhz most of band. 2/A713441 transistors and tube 4/OA2, 3/12AX7, EL34, 8068, A160011 Polarad klystron. Requires 115/230 VAC; 5.3x16.8 x18.3, 50 lbs. Used-reparable w/book, \$350. POLARAD 1108, similar to 1107 except 6.95 to 11 GHz, used-reparable w/book, \$365.00



## ELECTRONIC FILTER

SKL 302 DUAL VARIABLE ELECTRONIC FILTER has dual filter sections each with high and low pass filtering with high-low cut-off frequency range of 20 Hz to 200 KHz using decade scales X10-X100-X1K-X10K. High pass greater than 90 db limited by hum and noise; Low pass 60 db on X10K range. 90 db below 1 Mhz, 60 db above. Insertion loss: 0 db +/-1 db for 20-200 Hz cut-off; 0 db +/-2 db for 20K-200 KHz. Input impedance 2 Megohms shunted by 32 pf. Output: 300 ohms. Max signal in: 6 V peak. W/tubes 10/12AT7, OA2, 6AV6, 2/6AV5 or 6AQ5. Requires 105-125 VAC 50-60 Hz; 5.2x19x15.6, 26 lbs. Used-reparable w/partial manual, \$75



## 50 TO 400 MHz FM

SG-3/URM-70 FM SIGNAL GENERATOR, 50-400 Mhz in three bands. Internal modulation @ 100, 1600, or 20000 Hz. External: 250 to 75 KHz. FM deviation: 0-15-75-150 KHz (50-100 Mhz). 0-30-150-300 KHz (100-200 Mhz); and 0-60-300-600 KHz (200-400 Mhz). Output: 0.1 to 100K u-volts +/-25%. 50 ohms output. Requires 115 VAC 60 Hz. 15x11.5x17.3, 90 lbs. Used-reparable, \$165. Checked, \$235. MANUAL for URM-70, partial repro, \$10.00





## VOLTMETER-VLF RECEIVER

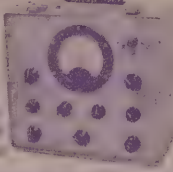


ME-71/FCC AUDIO LEVEL METER, covers 20 to 500 KHz continuously tuneable. As selective detector, it measures RF carrier across a 135 ohm balanced or 600 ohm unbalanced line. Variable attenuator provides input sensitivities from -70 to -42 dBm indicated on 3 1/2" dia. meter. Includes 100 KHz calibrator. Input impedance: 10K ohms. Audio gain and two phone jacks. Various models ("C" pictured). Power required: 115 VAC 60 Hz. 17x14x9; 40 lbs sh. ME-71, w/NATIONAL-TYPE DIAL, USED, \$40.00. ME-71B, USED, REPARABLE, \$45. ME-71C, \$50. OPERATIONAL, ADD \$30. MANUAL, REPRO, \$8.50

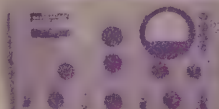
## TRANSISTOR TESTER

HICKOK MODEL 1890M TRANSISTOR TESTER, checks transistors in and out of circuit. Collector leakage current ( $I_{cbo}$ ) ranges: 0-50-500 ua and 50 ma. Collector current ( $I_c$ ) 0-1-10-100 ma.

Current gain Beta: 0-50-100-200-400. AC test signal 1000 Hz. Transistor input resistance range 50-10000 ohms; circuit input impedance 25-100000 ohms. Collector voltages 0-1.5-3-4.5 VDC. Has transistors 4/2N651A, 2N650A. Requires batteries (not supplied) Eveready 765 (23.5 V) and two Burgess 2370-ST (4.5-3-1.5 V). With partial repro of manual. 10x10x9 1/2, 18 lbs. Used-reparable, \$54.50 \$42.



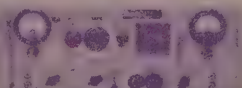
## DISTORTION ANALYZER



TS-723 DISTORTION ANALYZER, similar to Hewlett-Packard 330B; used to evaluate output of audio amplifiers. Measures harmonic distortion as percentage or in decibels and noise level in RMS or dB values referenced to 1 MW across 600 ohms. Response 20 Hz to 20 KHz; distortion sensitivity as low as 0.3% of meter full scale. Noise amp gain: 40 dB. db from 20 Hz-15 KHz. Set level amp gain 20 db +/-1 db 20 Hz-20 KHz. Input impedance 200K ohms shunted by 40 pf. Built-in AC VTVM has ranges 0.05-300 Vrms in 8 steps; -30 to +50 db in 8 steps. VTVM response 10 Hz-100 KHz. With tubes OD3, 5Y3, 3/6AC7, 2/6J5, 4/6SJ7, 6Y6. Requires 115/230 VAC 50-1000 Hz. 10.5x19x12, 50 lbs. Used-reparable, \$165 \$99.50. Checked, \$210 \$150. MANUAL, part-repro \$10.

## CRYSTAL IMPEDANCE METER

TS-330/TSM CRYSTAL IMPEDANCE METER, measures parameters of 1 to 15 MHz quartz crystals, measures series resonant and anti-



resonant resistances, and provides performance index of crystal activity. Ranges 0-1.5, 1.5-2.25, 2.25-3, 3-4.5, 4.5-5.1, 5.1-7.5, 7.5-10.0 MHz. Resistance calibration 0-100 ohms (10 steps), 0-1000 ohms (10 steps), 1000-9900 (10 steps). Load capacitance 12-110 pf using 0-100 dial and calibration chart. Requires 115 VAC 50-1000 Hz. Similar to RFL Model 459; gray or black color. 7x19.5x8.3, 30 lbs. Used-reparable, \$165 \$135. MANUAL for TS-330, partial repro, \$12.00

## ME-6D VOLTMETER



ME-6D/U VTVM, covers 0.005 to 500 V-rms in six ranges and -65 to 57 db. Built-in 15 Hz-250 KHz wide-band amplifier with max. voltage gain of 4500; minimal distortion to 23 VAC output. 115 VAC 50-400 Hz. 11x6x5 1/2, 14 lbs sh wt. Used-reparable, \$20. Checked, \$40. MANUAL f/ME-6D, partial repro \$8.50

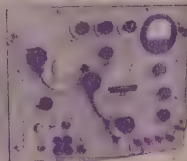
## 8500-9600 MHZ TEST SET

TS-148/UP SPECTRUM ANALYZER, 8470-9630 MHz with 3" CRT (3BP1) display. Measures frequencies of cavities, echo boxes, magnetrons, and local oscillators. Receives CW and pulse; transmits CW and FM carrier. 1 MW power output (2K25). Max. spectra dispersion: 1.5 MHz/in. Requires 115 VAC 60 Hz. 19x13x25, 45 lbs sh. Used, \$50.00



AN/UPM-33 TEST SET, includes TS-148/UP, wave guides, horn antenna, cables, transit case, and manual; 80 lbs sh. Used, \$85.00

## 4 GHZ TEST EQUIPMENT



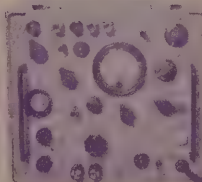
TS-403 SIGNAL GENERATOR similar to Hewlett-Packard 616B; 1.8 to 4.2 GHz directly calibrated. Output 0.1 uv to 200K uv into 50 ohm load monitored on 3 1/2" round Power Level meter. Internal modulation 40 to 4000 Hz. External pulse-mod requires -40-+70 V; width 1 to 2500 usec squarewave or modulated. Requires 115/230 VAC 50-1000 Hz. 17x13x13 1/2, 70 lbs. Used-reparable \$195 \$165. MANUAL, repro \$10.

SG-557/TS-621 SIGNAL GENERATOR, 3.8-7.5 GHz; similar to HP-618. FM, CW, pulse or square-wave modulation. Pulse rate varies 40-4000 pps; width 0.5-10 usec. Output 1 MW into 50 ohms; 17.5x14x19.5, 110 lbs. Used-reparable with output, \$215.00. MANUAL f/SG-557/TS-610, partial repro, \$12.



## UNIVERSAL BRIDGE

ZM-11 TEST SET, portable bridge unit designed to measure capacitance, inductance, resistance, transformer turn ratio, dissipation factors of inductors and capacitors, and storage factors of inductors--all at 1 KHz test frequency. Also insulation and leakage of electrolytics in circuit using 10.75 MHz test frequency. Capacitance range: 10 pf-10 mf, 1 mf-100 mf, 10 mf-1100 mf. Inductance: 0.1 mH-1 H, 1 H-10 H, 10 H-110 H. Insulation DC res: 200-500 megohm, 5K-10K meg ohm. Transformer turn ratio: 0.01-110 (K=1). DC leakage: 0-1-5-25 ma. Dissipation: 0-0.06 (10 pf-0.1 mf), 0-0.6 (0.1 mf-1100 mf). Q Storage: 0.5-20. DC applied to electrolytics is 500 VDC. Uses test leads with standard banana jacks. (Leads not available.) W/tubes 6E5, 6J6, 2/6AV6, 6AG5, 6AL5, 6AQ5, and 6X4. Requires 115 VAC 50-1000 Hz; 5.8x9x9.8, 18 lbs. Used-reparable, \$85. Checked, \$115.00. MANUAL for ZM-11, partial repro, \$8.50



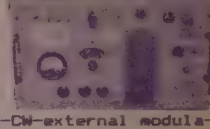
## FR-149 FREQUENCY METER



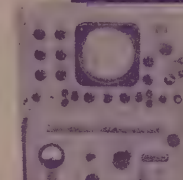
FR-149/USM-159 TRANSISTORIZED FREQUENCY METER, covers 125 KHz to 1000 MHz in three ranges: 125 KHz-2.5 MHz, 2.5-65 MHz, and 65-1000 MHz. CAN BE USED AS A SIGNAL GENERATOR BY PROVIDING EITHER MODULATED OR UNMODULATED SIGNALS. FREQUENCY FUNDAMENTALS READ DIRECTLY FROM MAGNIFIED AND ILLUMINATED CALIBRATED FILM STRIP AND THEN INTERPOLATED IN ACCOMPANYING CALIBRATION BOOK. OPERATES FROM EITHER SIX "D" CELL BATTERIES OR FROM 115/230 VAC 50-450 Hz. SIZE: 11x11x13; SHPG. WT: 33 LBS. Used-reparable \$99.50 \$75. Checked \$280 \$115

## RADAR TEST SET

TS-147F X-BAND TEST SET used to test radar and beacon equipment in 8500 to 9600 MHz range; functions as signal generator, power and frequency measuring device. Generator output over band FM-CW-external modulation; -7 to -85 dbm RF output. Sweep variable from 0.2 to 6 MHz; pulse repetition to 4000 pps. Freq-meter range 8470-9630 MHz +/-2.5 MHz. RF power level input: +7 to +30 dbm. Sawtooth sweep 0 to -100 V. Has 2.5" dia Milliamp/DBM meter and 2K25 klystron. Requires 115 VAC 60-1600 Hz. 11.5x17.5x10, 40 lbs sh. Used-reparable, \$135.00. AT-68 PICK-UP HORN, \$12.00. UG-446 ADAPTER, UG-39 flange to N conn, \$12. UG-397 ADAPTER, UG-52A flange to N conn, \$12.



## SPECTRUM ANALYZER



TS-1010/UPM-84 SPECTRUM ANALYZER, covers 10 MHz to 44.88 GHz in eight bands; 5" SADP7 CRT display. Resolution at 3 db points: 20 KHz over range. Dispersion: 500 KHz-5 MHz adjustable (10-55 MHz); 500 KHz-25 MHz (55 MHz and up). Spectrum calibrator 160 MHz center frequency +12.5 MHz. Sensitivity as low as -63 db (10-150 MHz); 40 db (2.0 GHz up.) RF attenuation 100 db uncalibrated internal 10 MHz to 12.4 GHz; external attenuators required above. IF attenuation 0-60 db in 6 db steps. Requires 115 VAC 60 Hz. 17.3x19x26; 180 lbs sh, 145 lbs net. Used-reparable, \$425. \$265. TRANSIT CASE, 75 lbs, \$15 w/set purchase. MANUAL, partial reproduction, \$15.00

\*\*\*\*\*  
ACCESSORY KIT including five bandpass filters for segments of 0.75-11.8 GHz range, three variable attenuators and three coax-to-waveguide adapters for 12.4-44.88 GHz, transit case \$85.00 w/set purchase.

## 500 KHZ SCOPES



HEWLETT-PACKARD 130C OSCILLOSCOPE, 500 KHz bandwidth on all ranges plus 0.2 mv/cm sensitivity for X and Y amplifiers making it especially useful for phase measurement. Has large easy-to-view 5" dia CRT. Sensitivity 0.2 mv to 20 V/cm in 16 calibrated steps, 1-2-5-10 sequence; vernier to 50 V/cm. Sweep 1 uSec to 5 S/cm in 21 steps; vernier to 12.5 S/cm. Also 350 Hz squarewave calibrator, X2/X50 magnifier, auto triggering, beam finder; with partial repro manual. 115/230 VAC 50-1000 Hz; 7.3x16.8x18.5, 38 lbs sh. Used-reparable, \$135. Checked, \$195.00



TS-1060/TDA-2N TTY TEST SCOPE, measures bias and distortion of start-stop synch-teleg graph signals on 3RP1 CRT. (Could be foundation for cheap general purpose scope!) Input impedance 100 ohms for 60 ma neutral; 30 ma polar. 115/230 VAC 60 Hz; 8x8x15, 24 lbs sh. Reparable, \$35 \$25. MANUAL part-repro, \$10.

## AUDIO TEST GENERATOR

HEWLETT-PACKARD 205AG AUDIO SIGNAL GENERATOR, has two voltmeters to measure input and output of unit under test plus 0-40 db in 5 db step input attenuator and 0-110 db in 1 db steps. Response: 20 Hz-20 KHz; output 5 watts max into selectable 50, 200, 600 or 5K ohm loads. Requires 115/230 VAC 50-1000 Hz. 12.8x20.8x15.5, 63 lbs. Used-reparable w/book, \$125.





## HICKOK MULTIMETER



**HICKOK 1604M SOLID-STATE MULTI-METER**, achieves high gain by using chopper to allow use of AC-coupled amplifiers. AC response to 700 KHz and AC volt ranges 0-0.5-1.5-5-15-50-150-300 VAC. Eleven DC volts full scale ranges from 0-0.5 V to 1500 V in 15-50-150 sequence. Fourteen DC current ranges 0 to 1.5 nanoamp to 150 ma in 1.5-50-15 sequence. Resistance ranges from 0-500 ohms to 500 megohms in seven steps. AC probe uses EA53 tube. Includes AC and DC probes, two test leads, and partial repro of manual. Requires 115/230 VAC 50-400 Hz. 7.1x5.1x9.1, 13 lb sh. Used-repairable, \$85. Checked, \$125.00

## SQUAREWAVE

**SG-299 SQUAREWAVE GENERATOR**, 1 Hz to 1 MHz in six decade ranges. Output: 7 V peak-to-peak 75 ohm impedance with 0.02 usec risetime; 55 V p-p 600 ohm impedance 0.1 usec risetime. 75 ohm attenuation 0-20-40-60 db. Sync input: Positive pulse or sine wave. Requires 115 VAC 60 Hz; 13.9x9.8x13.9, 40 lbs. Used-repairable, \$35. MANUAL part-repro \$8.50



## PHASE VOLTMETERS

**NORTH ATLANTIC VM-202R PHASE ANGLE VOLTMETER**, preset for analyzing 400 Hz phasing; usable for any frequency in 30 Hz-10 KHz range if appropriate filter installed (not available). Selectable FUND-0°-90°-180°-270° phasing with 0-90° dial in 1° increments; 2% accuracy. Resolution 0.05° at 5 times full scale voltage; 30 Hz-10 KHz frequency range. Built-in VTVM has 12 ranges from 0.001-300 Vrms. Input impedances 10 meg-ohms. 115/230 VAC 60-400 Hz; 5.3x19x7.3, 20 lbs sh. Used-repairable with book, \$55.00

**VM-202BR PHASE METER**, similar to above except has filters in signal and reference channel. Used-repairable with book, \$69.50



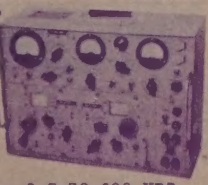
## MULTIMETER

**ME-297/USM-223 FET MULTIMETER** measures volts AC and DC to 5000 V in sequential ranges 2.5-10-50 to 5 KV, AC/DC 1000 ohm/v or DC 20K ohm/v. Also DC current to 10 amps in full scale ranges 0.25-2.5-10-50-100-500 MA DC and 2.5-10 amps. Resistance scales x1K-10K-100K-1M-10M ohms. Includes rugged plastic case, 4.5" dia FS-50 ua meter, red-black test leads and front cover. Requires 6-PXB1 1.3 V and 1-C" batteries (not included). 6x7.4x8.8, 7 lbs sh. Used-repairable, \$34.95; Checked \$54.95; Manual partial repro, \$8.50



## MULTI-PURPOSE TEST SET

**AN/TRM-1 SIGNAL GENERATOR**, covers 0.19-400 Mhz AM using two RF oscillators SG-32 (0.19-30 Mhz in 5-bands) and SG-33 (30-400 Mhz). Internal modulation 0-60% @ 1 KHz or 200-6000 Hz external. Output: 2.5 to 100K u-volts in nine steps; 50 ohm impedance. Built-in voltmeter measures 0-3-30-600 VDC, 0-3-30-300 VAC, and 0-10-100-1000 MW. Also tests performance of 3 to 100 watt transmitters over freq. range when proper coupler and dummy load (not included) is used. Write for availability/price of accessories. Requires 115 VAC 60 Hz. 18x13x8; 65 lbs. Shipped UPS in two cartons. Used, repairable \$135. Checked, \$225. MANUAL, partial repro., \$10.



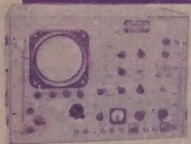
## SOLID-STATE SCOPE

**OS-106/USM-117 TRANSISTORIZED OSCILLOSCOPE**, DC to 5 Mhz bandwidth, 4QP2 rectangular CRT, and is very compact. Includes MX-2996 high gain vertical plug-in plus has dual-trace capabilities when used with MX-2995 plug-in (not included). Sweep range 0.1 usec to 0.1 sec in 19 calibrated steps in 1-2-5-10 sequence. Vertical sensitivity: 0.01 v/div to 20 v/div in 11 calibrated steps in 1-2-5-10 sequence, variable to 50 v/div. Input impedance 1 Megohm shunted by 47 pf. Calibrator generates 1 KHz square wave at either 0.04 or 0.4 V p-p. Requires 115 VAC 50-60 or 400 Hz. 8.5x9.8x15, 20 lbs. Used-repairable, \$165. \$115; Checked, \$265. \$175. USM-117 with dual-trace MX-2995 instead of MX-2996, repairable or checked, WRITE MANUAL for USM-11, partial repro, \$15.00 MANUAL for MX-2995, partial repro, \$15.00

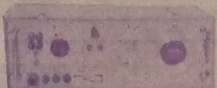


## SSB SPECTRUM ANALYZER

**TS-1379A SSB SPECTRUM ANALYZER**, designed to measure single sideband transmitter characteristics such as hum, noise, distortion, carrier and undesirable sideband suppression. Solid-state unit has 5" CRT (5EQP7) display for viewing RF. Input frequency 485-515 Hz and 2-30 Mhz. Sweep width: 150, 500 Hz, 3.5, 7, 14 & 30 KHz. Requires 115 VAC 47-430 Hz. 16x19x18, 70 lbs. Used-repairable, \$225. MANUAL part-repro \$15. TS-1379 ANALYZER, earlier version, used \$185.



**CV-2353A FREQUENCY CONVERTER** adds VLF range to TS-1379/1379A of 100 Hz to 2 Mhz. Input of 100 Hz-2 Mhz is mixed with externally supplied oscillator signal in 2.5-4.5 Mhz range to produce 2.5 Mhz output. Also 3 Mhz oscillator output. Input 0.01 to 3 V rms 600 balanced; 600/75 ohm unbalanced. Output 0.01 V @ min attenuation. 115 VAC 60 Hz; 8.3x19.5x6.6, 22 lbs Used-repairable, \$75



## TEKTRONIX SCOPES

**TEKTRONIX 545 SCOPE 30 Mhz** mainframe with sweep delay, two time bases, and 6x10 cm display. Versatile unit uses wide variety of Tektronix and other manufacturers' letter- & 1-Series vertical plug-ins. 17x13.3x24, 80 lbs sh. Yes, this popular tube-type scope has been around awhile and must be shipped via truck. But consider Tektronix quality, versatility, and now the "unheard of" low price:

**TEK 545A w/Tek CA dual-trace, CHECKED, \$225.**  
**TEK 545B with Tek CA, CHECKED, \$249.00**  
 \*\*\*\*\*  
**TEK 545 Mainframe only, used-repairable: \$65.**  
**TEK 545A MAINFRAME, used-repairable, \$80.00**  
**TEK 545B 33 Mhz MAINFRAME, repairable, \$99.**  
**MANUALS for TEK 545, 545A or 545B (specify), partial reproductions, \$15.00 each.**  
 \*\*\*\*\*  
**VERTICAL PLUG-INS for above, repairable; take 15% off plug-in prices if purchased with scope. (Add \$10 for TEK manufacture):**  
**TYPE C Hickok Dual Trace, DC-24 Mhz, \$65.**  
**TEK CA Dual Trace, DC-24 Mhz, \$95.**  
**G Wide-Band DC-20 Mhz, \$20.00**  
**53/54K Fast-Rise High-Gain DC, \$30.00**  
**L Fast-Rise High-Gain DC and AC, \$40.**  
**TEK 1A1 Dual Trace DC-30 Mhz (50 Mhz for Tek 547), repairable, \$95. Checked, \$145.**



**TEK TYPE M Four-Trace, repairable, \$125.00**  
**TEK TYPE Q Strain Gauge, repairable, \$115.00**  
**TEK TYPE R Transistor Risetime, \$100.00**  
**TEK TYPE W Differential Comparator, \$115.00**  
**TEK IL30 ANALYZER, 925 MHz-10.5 GHz, \$350.**  
**TEK 10A2A DC-100 Mhz dual-trace I/647, \$135.**  
 \*\*\*\*\*  
**TEKTRONIX 434 STORAGE SCOPE, portable DC to 25 Mhz dual trace; full upper or lower screen storage. Used-exc v/book, \$1200.00**

## LM FREQUENCY METER



**LM FREQUENCY METER**, crystal calibrated unit covers 125 to 20,000 KHz in two bands. Design accuracy better than 0.02%. Output 250 uv minimum; 600 ohm impedance. 40% AM modulation at 500 Hz. With calibration book, 1000 KHz crystal, and tubes 6A7, 76, 77, 2/991. Requires 12 V 600 ma AC, 260-475 VDC 20 ma. 8.5x8.5, 14 lbs sh wt. Gov't-reconditioned, \$24.95; MANUAL, \$7.50 w/set. Power input connector for meter, \$3.00

## SIGNAL GENERATORS

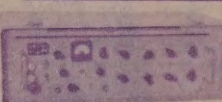
**AN/URM-25 SIGNAL GENERATOR**, older version of URM-25F, 10 KHz-50 Mhz AM in nine bands. Output 0-100K uv in to 50 ohms. Modulation 0-50% 400 or 1000 Hz internal. One Mhz crystal calibrator. Requires 115 VAC 50-1000 Hz. Less front cover; 11x14x10, 44 lbs sh. Used, repairable, \$85. Checked, \$130. ACCESSORIES available w/purchase of URM-25: MX-1487 impedance adapter \$6. MANUAL, \$10. SM-35 antenna simulator, \$5. CN-225 5:1 attenuator \$5. CN-224 10:1, \$6. \*\*\*\*\*



**3 TO 405 Mhz** **AN/URM-26 SIGNAL GENERATOR**, older version of URM-26B, 3-405 Mhz AM-CW in six bands; output 0.1 to 50K uv into 50 ohms. 0-50% internal modulation, 400 or 1000 Hz. Requires 115 VAC 50-1000 Hz. 11x15x10, 42 lbs sh wt. Used, repairable, \$90.00; MANUAL, partial reproduction, \$10.00 CN-179 10:1 or MX-1289 adapter, \$7.50 each.

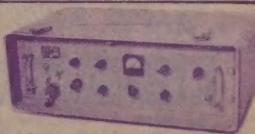
## SINGLE SIDEBAND TEST

**SG-376 TRANSISTORIZED TWO-TONE I.F. SIGNAL GENERATOR** for testing SSB equipment. Has two 20 Hz-20 KHz audio oscillators and two independent IF oscillators. IF outputs: 497.5, 498.5, 501.5 or 502.5 KHz only plus 497.5 & 498.5 or 501.5 & 502.5 KHz simultaneously. Output levels: 2-2.5 V into 600 ohms (AF); 1-1.25 V into 60 ohms (IF) with attenuation to 100 db in 1 or 10 db steps. Requires 115 VAC 50-450 Hz. 5.5x19x11, 35 lbs Used-repairable \$95. Checked \$155. MANUAL \$10



**SG-823/URM-144 TWO-TONE REFERENCE GENERATOR** for measuring receiver sensitivity and SSB transmitter distortion. Has two RF outputs usable independently or in combination without intermodulation effects. Outputs 2, 3.6, 4, 7.2, 8, 14.4, 16, 28.8 Mhz at 100K u-volts max into 50 ohms. Freq adjust +0.05% (A), +0.0025% (B). Requires 115 VAC 60 or 400 Hz. 5.5x19x11, 35 lbs sh. Used-repairable \$90. Checked \$146. MANUAL \$10 \*\*\*\*\*

**SG-376 and SG-823 designed for use with TS-1379A Spectrum Analyzer on page 33.**



## 4 TO 405 Mhz GENERATOR

**SG-117/URM-26B SIGNAL GENERATOR**, 4.0 to 405.0 Mhz AM-CW-pulse in six bands. Compact unit has 0.1 to 100K uv output @ 50 ohms. Modulation 400 or 1000 Hz 0-50%. External pulse-mod requires positive 40 V min. 50-5000 pps; duration 2-40 usec and 70 ohm input impedance. Requires 115 VAC 50-1000 Hz; less front cover. 11.3x14x10.5, 36 lbs. Used-repairable \$175 \$115. Checked, \$225 \$165. MANUAL, partial repro \$10.

**ACCESSORIES sold only w/purchase of URM-26B:**  
 CN-315 2:1 attenuator, 50 ohms, \$8.00  
 CN-316 10:1 50 \$10. CN-471 10:1 70 \$10.  
 CU-439 impedance matcher, \$10.00  
 BNC cords, 4 ft, \$3.00; 6", \$2.00





# PRICE REDUCTIONS ON COMPUTER SURPLUS!

## GREEN MONITOR

12" diag-GREEN COMPOSITE MONITOR, high quality unit made for Commodore featured in our Summer '85 Supplement. We bought more at a lower price and are passing on the \$5.00 savings. Has Amperex M31-3346R CRT and fiberglass PC board; sturdy steel frame allows easy attachment of your constructed enclosure. Requires 12 VDC 2 amps; manufactured in late 1984 by Elston Electronics. 10"Hx12.8"Wx11"D; 18 lbs #DM-30-WDSR, NEW w/schematic, \$39.95 \$29.95



MICROFORM DATA 9" MONITOR comprised of Motorola XM227-17 composite black and white monitor suitable for use with video camera or as a computer monitor. Hidden control for contrast and brightness; also On/Off switch, 75 ohm or high impedance input (BNC connector), and ivory case with green base. Requires 115/230 VAC 60 Hz. 16.5x9.5x10.5, 22 lbs. #MD9-MON, used-good condition \$35.00



## DIP EXTRACTOR

DIP EXTRACTOR PLIERS for easy and non-damaging vertical removal of 4 to 48-pin IC's from sockets or desoldered PC boards. Spring-loaded pliers are made of anti-static plastic with metal extractor teeth; 5x3.4. Techni-Tool #4916, NEW, \$5.95; 2/#10.



## COLECO JOYSTICK

COLECO JOYSTICK/CONTROLLER, features joystick with two independent fire buttons and 0-9, \*, # keypad. One foot cord extends to 3 feet, DB-9 connector as on popular joysticks. Output lines are diode matrixed, but may be re-wired for popular computer/game machines. 2 lbs; #JS-CO-CO, \$3.00 ea. 2/#5.00



## 50K JOYSTICK

JOYSTICK with four 50K ohm potentiometers having fixed center-taps; smooth ball action. Brushed aluminum handle; 2 1/2x2 1/2x2 1/2. #JS-50K-LIB NEW \$5.95



## BALLY ARCADE BOARD

Part of Nome arcade game; has Z80 CPU, 2364, 8/4027, 7416, DM81LS95 and 74-series LS00, 2/LS02, LS04, 2/LS10, 2/LS74, LS174, 2/LS257, LS376; 14.318 MHz xtal and other parts. No data; 8.5x11, 2 lbs. #Z80-90701-BE20, NEW \$4.50



## DATA CASSETTE

DATA CASSETTE RECORDER, adaptable for use with most microcomputers having RS-232 input. Functions: Eject, Record, Rewind, Ready, Forward, Stop, Read-from-Tape, and Write-on-Tape. Tape speed 1-7/8 ips, 4-track 2-channel. Similar to Monroe Model 392. Requires -12 -3 1/2 V. Includes 3' cable w/DB-25P plug & hook. 8.5x5.3, 4 lbs sh. #DC-REC, unused, \$29.95 \$15.



ARCADE JOYSTICK, p/o SUPER ZAXXON by Sega; heaviest-duty metal stick with trigger and four SPST norm-open FIRE buttons. O/a 9x24x10, 18#. #AJS-SZ, NEW, \$19.95



## DATA COMMUNICATIONS

COMMUNICATIONS PC ASSEMBLY from a premier U.S. mfg; appears to be a high power modem deck featuring socketed PP34C132 & PP34C-103 special EPROM and five 2716's plus soldered 8085 CPU and 8155 I/O-timer. Has 7 push switches, 8-LED indicators, and two 8-pos DIP switches on front and five DEC-9S connections on rear. Also 70+ CMOS, 74LS, and misc soldered IC's, 4-transformers, 3-inductors, three 24 VDC relays, and 18,432 MHz xtal. Sold for experimental use only; no info available. 7.3x11 x3, 5 lbs. #RM-4401-246AE, used, \$14.95 \$9.95



## WHISTLE/SOUND ACTIVATED

WHISTLE/SOUND ACTIVATED SWITCH, alternates on-off latching operation. Can be used to control lights, TV commercials, robots, etc. Ten transistors; 2 1/2x3-1/8 circuit board with microphone and schematic. #AST-968S3, \$1.50 each.



## TIME-TEMP SIGN PCB'S

SCR/TRIAC CONTROLLER BOARD with seven each 400 V 4 A SCR's and 200 V 6 A triacs. SCR's trigger the triac gates with a 50 m-sec 16 V pulse that holds all triggered triacs "on" until 24 VDC to SCR's is reset. Originally p/o time-temp sign. 6 1/2x3 1/2, 1 lb. #AST-CMC27, w/schematic \$5.50 \$3.



## FISH TANK

FISHTANK OF ELECTRONIC COMPONENTS, P/O VIDEO TAPE SYSTEM. CONSISTS OF DEMODULATOR, SERVO-AMP, DROPOUT COMPENSATOR, PER/POST PROCESSOR DC POWER SUPPLY (115 V 60 HZ; OUTPUT -12/-12 LAMP REG, 5 VDC 1 AMP UNREG. MANY PARTS, IC's, FET, TRANSISTORS, TRANSFORMER VARIABLE RESISTORS, CAPACITOR MORE! SIZE 14x12x6 1/2 WT 15 \$9.95



## ZENITH CRT

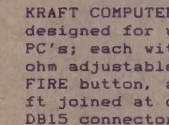
12" DIAGONAL GREEN VIDEO DISPLAY, p/o Heath/Zenith H/Z-100 microcomputer; includes MN1210P31AU CRT and PC board with adjustable Focus, Brightness, Vert-Size, and Width. Requires 12 VDC and external vert- & horiz-synch. No frame or AC supply. 13 lbs sh. #DJ12NK4, NEW, \$12.95



## JOYSTICKS & PADDLES

IBM JOYSTICK for PC Jr., usable with other computers and equipment. High quality item contains two-100K pots with mechanical mode switches to select spring return or free movement. Also trim adjust for each axis and two "fire" buttons. 1.9" o/a stick length; base 4.3x4x2, 2#. #JS-PCJR, NEW \$12.95; 2/#23

KRAFT COMPUTER PADDLES designed for use with PC's; each with 100K ohm adjustable pot FIRE button, and 4.5 ft joined at one male DB15 connector. Each 4.3x3, 4 lbs. #KR820-005, NEW, \$6.95 per pair.



## ACTION JOYSTICK

with fire button; eight direction action. Has 3.5 ft 6-conductor cord with DB-9 connector; rewire for computer/game machines. 3.6x4.6x3.1, 2 lbs. #MA-ACT-JS, NEW, \$2.95 ea; 2/#5.



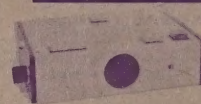
## AUGAT PROTO PC BOARDS

AUGAT UNIVERSAL IC PACKAGING PANELS for prototyping circuits using 14- and 16-pin IC's; usable with some larger IC's (40-pin) by straddling rows. Each has gold-plated wire-wrap contacts, V & 6 sleeves, and 1/16" thick glass epoxy. Mating connector not available. NEW: #8136-UGV-1, 12 rows; 4x6.5, \$45 ea \$24. #8136-UGV-2, 28 rows; 9.3x6.5, \$29.50 \$45. (Current Augat catalog list \$85+ and \$180+!)



## HOSPITAL INTERCOM BOX

INTERCOM CONTROL BOX an experimenters delight, this item was part of hospital desk-patient communications system. 8x5.6x2 aluminum box has Licon 10 amp lighted-push switches; two SP momentary 0.8" sq, one DP mom 0.8" sq and one SP mom 0.8"x1.5", a 1.6" dia 8 ohm speaker, volume control, and 7x4.5 circuit board. PC board has socketed Sigma 70R Series 2 amp relays 2/4PDT and 1/DPDT, two Triad TY-47X 2000 ct; 16/8/4 ohm AF transformers, and socketed IC's LM324, 2/LM339, MC14001, MC14011, MC14028, MC14042, MC14585, 3/MC319 ULN20D4; 4 lbs sh. #MID-IC-BX, used, \$9.95 \$6.95



## CABINET & CARD RACK

CONTINUITY SCANNER, General Engineering BSR Dual 192; has 5 VDC power supply with Signal #241-7-16 16 VCT 3.5 A transformer, adjustable card rack, 8 circuit cards which contain 170 (50 socketed) CD4000 /74LS-Series IC's including 52 UHP-400-1 Quad 2 input power driver, five miniature toggle switches, and nice modern cabinet. Interesting experimenter item and/or good parts source. No further info. Panel 8.75x19 x13, o/a 11x20.5x14.5; 35 lbs. Used, \$39.50





## AMBER DISPLAY

9" DIAGONAL AMBER VIDEO DISPLAY made by Elston for the Columbia Data portable; includes CRT and circuit board. Not composite; requires external horiz-drive & vert-synch and reg +12 VDC. 6 lbs. #AMB-CLA, NEW w/schem., \$22.95 #DM30-0980415-C31, as above but green \$17.95

## \* SEMICONDUCTORS \*

8085 CPU, \$2.50 2114 RAM, \$1.00  
3341 FIFO, \$1.50 AYS-1013, UART \$2.95  
RC4558 2-op-amp 4/51 CD4069 CMOS, 3/1.00  
S14K-130 20 A MOV \$1.  
FPA103 light reflective transducer, \$9.75 ea

LM-340T12 with heatsink \$1.25  
LM317T 2-37 V reg \$1.50 LM318N op-amp \$1.50  
MPSA14 NPN darl 5/1.  
2N2222A NPN 6/32. 2N4126 PNP 10-no 6/31  
2N6346 unijunct 75¢ TIP120 NPN darl. 75¢  
TIP140 NPN darl. 95¢ TIP142 NPN darl. \$1.00  
TIP145 PNP darl \$1.00 7808 8 v reg., 3/31.

DIODES & BRIDGES new/unused removed f/equip:  
MOV #V150LA10A, 150 VAC VDC 45 joules, \$1.  
#KBH25005, 25 amp 50 volt bridge, \$1.35  
#KBP6005, 6 amp 50 volt bridge, \$1.00  
#KS19404 DIODE 100 V 50 A; no heatsink \$2.

1 AMP 50 PIV 20/1. 35 AMP 50 PIV \$1.80  
400 PIV \$1. 100 " 2.10  
1000 PIV 10/1. 400 " 3.25  
5 AMP 800 PIV, \$1.75 1N3890 100V 12A 4/33.  
ZENERS, 1 W: 3.3 3.9  
4.1 10.2 V 4/31.  
MR-Series, 6 amps: 11.6 12.0 V 3/31.  
MR752 200 " \$1.10 1N2974B, 10 W 10 V  
MR754 400 " 1.25 5% stud mt. \$1.25  
1N1357RA ZENER, 10 W 18 V 5% rev-polarity \$1.  
VARO VTA200/S 200 V 25 amp bridge rectifier,  
c.t. cathode, stud mount, \$1.00 ea. 4/33.  
#50-100A RECTIFIER, 50 V 100 A conservative;  
no hardware or pigtail. House #; 2x1". \$2.  
#3008A-A (-AR=reverse) DIODE, 300 V 84 A, \$5.

## LED'S

RED, T-1 1/2 size 8/31. GREEN 6/31.  
DARK RED, HP5082-4692, 6/31.00  
7-SEGMENT NUMERIC DISPLAY, com-  
mon anode, lefthand decimal HP5082-7730 \$1.  
SLA-2 DISPLAY; .33", - or -1 and 1, 2/\$1.00

## IC SOCKETS

8-pin low-profile 5/31.  
14-pin wire wrap 6/32.  
14-pin standard 5/31.  
40-pin l.p. \$1.00  
16-P wire wrap 6/32.  
18-pin l.p. 4/31.  
22-pin l.p. 3/31.  
24-pin std. 50¢  
28-pin std. 60¢  
16-pin l.p. 5/31.  
20-pin l.p. 35¢ 5/31.  
24-pin l.p. 40¢ 3/31.  
28-pin l.p. 45¢ 5/32.  
40-pin std. \$1.00

## JUMPERS

PCB jumpers, unused.  
44-40P2; two 40-pin, 23" long, \$4.25 \$3.25  
43-16P1; one 16-pin, 12" " 1.50 3/33.  
44-16P2; two 16-pin, 48" " 2.60 2.40  
43-24P1; one 24-pin, 12" " 2.80 1.50  
60-24P2; two 24-pin, 2 1/2" " 2.60 1.75

## RS-232C CABLE,

5 ft 25-conductor with male DB-25P and female DB-25S; 3#. #CB-RS232-5 used, \$8.

TEXAS INSTRUMENTS SEMICONDUCTOR MEMORY DATA BOOK (1975), 272 pages, \$1.00

## COPPERCLAD PCB

SINGLE-SIDE copperclad etching board for making printed circuits. Phenolic (PH) or fiberglass (FIB) backed:  
#PH-4"x18", \$9.75 ea; 4/22.50  
#PH-16"x18", \$2.75 ea, 5/10.  
#FIB-16"x18" single-sided, \$3.50 ea, 5/12.  
#FIB-15"x12" double-sided, \$2.65 ea.

\*\*\*\*\*  
VERY THIN COPPERCLAD, less than half thick-  
ness of above; easily flexed to make cylind-  
ers, RF shield, or laminates; fiberglass  
core. Single-sided (SS) or double-sided (DS).

#VTC-SS-14"x18", 0.019" thick, \$2.00 ea  
#VTC-SS-18"x24", 0.015" th, \$2.25 ea, 5/99.

## 8088 PROCESSOR BOARD

BETACOM PROCESSOR BOARD, originally part of the Pro Communications box above; we do not know its designed capabilities, but it is "loaded" with popular components such as socketed 8088 MPU, 8203-3, and eight 27128-45 EPROMS. Also soldered 4/8251A, 2/8255-5, 2/8255A-5, 8259A, 8284A, 8/4164-20 DRAM's, and 55+ assorted 74-, 74LS-, and 14-Series IC's. Sockets for additional five 27128; 2.4 V NiCd battery. 14x10, 3 lbs sh. #8088-PCM, NEW, \$165.00 \$30.

CORTON KEYBOARD with ferrite core key switches. Has standard 54-key typewriter format, 12-key numeric pad, and 17 entry keys (4 unmarked). Buttons: peach-brown and beige keys; looks like serial input. With IC's 2/7403, 7405, 74165, 4/7415, 743287, 3/74LS00, 1302, 2/LS04, 2/LS11, LS98, LS11, LS14, LS20, 4/LS74, 2/LS93, CA3088, MC833P, and 40-551276 controller. Requires +5 and +12 VDC; No further info. 6 1/2x18 1/2, 4 lbs. #55-500468 NEW \$21.95 \$6.

## SPERRY KEYBOARDS

84-KEY MICRO-SWITCH KEYBOARD, stand-ard qwerty format with 13-key numeric keypad; 15 red control keys. IC's SW-10667 MC836P, SW-20339K controller. Grey keys and case; 7 1/2x17 1/2x2 1/2 4 lb. #84-SD12-14 used \$25 \$12.  
#8120302, same as #84-SD12-14 except with Japanese KANA symbol characters; NEW \$40 \$15.

## 8048 CPU KEYBOARDS

MICROPROCESSOR CONTROLLED KEYBOARDS, features 8048 controller, an 8-bit CPU, ROM, RAM, I/O package with 1KB ROM, 64KB RAM, and 27 I/O lines. Compatible with 8000 Series peripherals; 5 V required. With 8048 info.  
74-KEY MICROSWITCH KEYBOARD. Compact unit with case and standard qwerty format plus control functions: Erase Display, Home, In Disp Delete in Line, Insert, EOD Erase -EOL, Char Erase-Xfer, Ctl Page-Print, Unlck, Msg-Wait, Cursor direction, etc. IC's 74H04, 7442, 8048 & 5.904 MHz xtal 3' cord w/DEC9S. 8.5x15x3, 5 lbs sh. #2825479, NEW, \$24.95 \$9.

CORTON 110-KEY MULTI-FUNCTION KEYBOARD with qwerty format, 13-key numeric pad, cursor pad, control keys, and function keys: "Delete, Insert, Erase, Xfer, Print, Board Unlck, Control Page, Tab Set, FCC Clear/Search, FCC Renewable/Status, FCC Generate/Msg Wait, Hang Up" and other IC's CD4051, LM393, 74LS00, 74LS05, CD4028, MC14028, 8048; 6.00 MHz crystal. One of two keys maybe "reject." 7.3x19x1.5, 5 lbs. #2833816, \$19.95 \$7.

## FULL RANGE SPEAKER

HIGH QUALITY FULL-RANGE 4 OHM SPEAKER. 5.25" dia is nice auto size. Response 55-20000 Hz with 30 watts nominal (45 W max) rated. Has inner tweeter cone and 3 lbs sh. #MA-SP5330, NEW \$14.95

BUDGET FULL-RANGE SPEAKER. 4.6" dia, 8 ohms. Rated 5 watts, 85-12000 Hz response. Use as monitoring speaker. Mag-net 2.4" dia x 7/8"H, 2#. #MA-SP465, NEW, \$6.

## BETACOM PROJECT BOX

BETACOM PROFESSIONAL COMMUNICATIONS MANAGER BOX, originally when it had all of its circuit boards, serial controlled printer, and/or parallel printer, CRT, and 300/1200 baud modems. We are offering the 4.8x10.8x15.8 enclosure only with 5 V 3 amp modular and a small +/-25 V power supply as a project box. Nice clean front panel. Circuit boards available separately; no info. 16 lbs sh. #PCM-BOX, unused, \$24.95 \$20.

## "DOORBELL" RECTIFIER

UNITRODE "DOORBELL" RECTIFIER, modular 1.75" dia high voltage rectifiers which can be screwed into one another (stacked) to attain desired rating. Base unit required which would plug into industrial tube socket; 1 lb sh each:  
#UDA-10, rated 10 KV 1 amp (in air), 1.4 A if oil-cooled; 2 uA max reverse, NEW, \$12.  
#UDB-2.5, rated 2.5 KV 3 A (in air), \$10.  
#BASE-92B JUMBO 4-PIN BASE for above, \$6.95  
#UDA-10/92B COMBINATION PRICE, \$16.95

HIGH VOLTAGE DIODE 3 PHASE "Y" BRIDGE from 200 VDC power supply; 6 submodules each with ten 1N1095 diodes and five capacitors series-parallel. 3.3x2.3x3.7, 2 lbs sh. #1540/ARC-58, used, \$6.00

## TI-742 PROGRAM TERMINAL

TEXAS INSTRUMENTS 742 PROGRAMMABLE DATA TERMINAL, ASCII terminal with 1200 baud modem card which allows data to be recorded onto digital-grade magnetic tape cassettes and later transmitted to another terminal or central computer. Keyboard has 68 printable and 33 control characters plus key-punch-type numeric cluster. Printer utilizes 5x7 dot matrix head and prints on 8 1/2 thermal paper. Dual cassette deck storage 288K characters/cassette min; 800 BPI, 86 character block phase-encoding. Off-line playback or record @ 30 char/sec; tape duplication @ 200 char/sec. On-line play/record @ 110, 150, 300, or 1200 baud. Requires 115 VAC 60 Hz; 14.6x21.2x19.5, 70 lbs. Sold "AS-IS" used-complete w/info, \$89.50; less modem card \$55  
\*\*\*\*\*  
PRINTER TERMINAL only from TI-742 less modem card; modify for stand-alone use. 45#; \$30.  
DUAL CASSETTE DECK with control panel from TI-742; 32 lbs sh. #2CD-TI742, used, \$35.00

TI-732 KSR DATA TERMINAL, similar to 742 printer but for TTY communications. Five level baudot code, 20 ma neutral loop. Send-receive speeds 50, 75 or 100 baud (6.67-10-13.3 cps). Upper case only 37-key QWERTY keyboard; 55 printable characters & 5 print functions. Adapt to RS232C interface or acoustic couplers; 45 lbs. unused, \$135.00

## KEYTRONICS PC KEYBOARD

KEYTRONICS 51-SERIES KEYBOARD used with Columbia Data personal computer and fully compatible with IBM and "clone" PC's. QWERTY format, numeric pad/cursor, 10 function keys; low profile, aluminum color with coil cord & connector. Units slightly used with minor "scuffs" but test "OK". 7.5x17.5x2, 7 lbs sh. #CD-KEY-51, \$49.95 \$39.

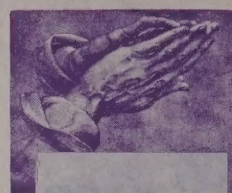
## SIDE-CUTTER

BANCO PRECISION SIDE-CUTTER for close cuts of 1.2 mm copper wire. Joint pressure adjustable; cut ends retained by wire holder. Top quality; Swedish-made. 4.5"L, 2 lbs. #8-SC-2132-4, NEW, \$8.95





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### 100-TURN COUNTER



100-TURN COUNTER with CRANK, turns from 0.1 to 99.9; front plate 3"x3". Shaft 2.3"Lx0.25" dia; coupler included. 3 lbs sh. #CR100T-339, used, \$18.95  
#KN100T-339, 100-turn counter with knob instead of crank, \$16.95  
#KN10T-939 10-turn count w/knob, \$12.95

DUAL 100-TURN COUNTER on 5.9"H x 10.3"W panel with spin crank knobs; counters marked LOADING and TUNING. One counter has geared-drive offset 5.1"; gearing can be disabled for direct-drive. O/a 14"W; 7 lbs. #100T-368, used, \$20



### VARIABLE INDUCTORS



ROLLER INDUCTOR, 14.3 uH; 24 turns #12 tinned-copper wire in 3.3"Lx2" dia coil. Roller contacts; less coupler. Shaft 3/8"Lx1/4" dia. O/a 3x5x6, 4 lbs. #339-L44-MED, used, \$28.

ROLLER INDUCTOR, 6 uH, 12 turns #12 T-C wire in 1.5"Lx2" dia coil. Shaft 3/8"Lx1/4" dia. O/a 3.5x5x5, 4 lbs sh. #339-SM-L5, \$15.95

ROTARY INDUCTOR, 103 uH; 61 turns #10 T-C wire form 8.75"L x3.4" dia coil. Uses sliding contactor on glass rod. Shaft: 3/8"x1/4" dia; o/a 8x8x14, 18 lbs sh. #939-L6-LG, used, \$35.00

### COAXIAL RELAYS



DOW KEY SPDT COAXIAL RELAY, 115 VAC coil and three UHF connections. RF Power rated 1 KW @ 100 MHz, 750 W @ 400 MHz. 3.5x2.5 x1.1, 2 lbs sh. Used: #DK-60-262842, two auxiliary contacts, \$21.95

#DK-60-2604, no auxiliary contacts, \$19.95  
ENCLOSURE for one relay, 5.5x4, #ENC-DK, \$5.

### ANTI-INTRUSION

AN/GSQ-151 ANTI-INTRUSION ALARM SET, portable, wire-less battery-powered set designed to detect personnel and equipment movement in the field. Consists of four detector sets with geophone stake on 8' cable, a receiver and alarm headset. Detectors are positioned with geophone placed in earth. Detected movement is transmitted in pulses @ 148.02 MHz; different pulse rates identify each detector. Receiver converts pulse to differentiated audio tone for the headset so that user can determine area of intrusion. Detector sensitivity movement range selectable 8, 15, 50, 70, and 130 feet. Transmitt range to 1 mile (ideal conditions). Designed to operate in extreme environments. Detectors and receiver each require two 9 V transistor batteries (not supplied); 3x5.5x1.8 each. Detectors may have broken stake holders. 10 lbs sh. Used-excellent, \$350.00

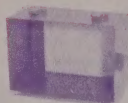


### ANTIQUE TUBE



RAYTHEON TYPE B with brass base & tipped glass; circa 1927. Most have no printing on base; 4.3" H, 1 lb sh. #RAY-B-NP, no print, \$7.50  
#RAY-B-WP, with print, \$15.

### ENCLOSURE



STEEL ENCLOSURE with metal feet and hasp fasteners. Nice 6.5x9.3x5 size for variety of projects; 5 lbs sh. #ENC-RM39, \$3.00 ea; 2/\$5.



### STOVE CLOCK

STOVE CLOCK TIMER, easy-to-read mechanical digital clock. Start-Stop clocks & 60 minute timer; 115 VAC 60 Hz. Panel 5x6x2.8, 3 lbs sh. GE#1317675, unused, \$5.95

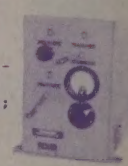
### TX EXCITER

EXCITER DECK from T-368 transmitter, includes tunable VFO, multiplier, and Band Selector for 1.5-3, 3-6, 6-12, and 12-20 MHz. Uses type 6000 tube as power amp to excite T-368's 4-400A tube. With proper voltages, exciter functions as 5 watt CW transmitter. Requires -55, +150, +275 VDC, and 6.3 VAC plus +370 VDC, 26.5 VAC for 6000 tube. With tubes 3/6AH6, 2/5749, 6000 and schematic. 5.8x10x10.8, 15 lbs sh; used. #EXC/T368, \$75.00; Without 6000 tube, \$34.95



### ANTENNA TUNER

BC-939 ANTENNA TUNER, used with BC-610 2-18 MHz transmitter. Two 100-turn counter dials "tune" 2-10 and 10-18 MHz; 10-turn counter adjusts coupling. Has variable inductors 103 uH, 14.3 uH, and 1.3 uH. Also fixed vacuum capacitors 12 pf 32 KV and 50 pf 20 KV, and 3.5" dia 0-15 RF ammeter. 11.3x14.5x23.5, 55 lbs sh. Used, \$115.00  
TN-339 TUNER, similar to BC-939 except used with 2-20 MHz T-368; has 100-turn counter & 6 uH inductor for Coupling. Used, \$125.00



### CY-684 BOX

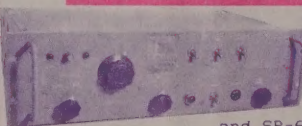


CY-684 SPARES BOX, hinged with hasp fastener; space for mini- and GT-size tubes and vibrator. P/o GRC-3--8; 3x10.3x5, 3 lbs. Unused, \$9.95

CS-76 CANVAS BAG, handy "six-pack"-size (7x10x8) perfect for carrying parts at ham-fests, ammo for the hunter, etc. Has adjustable strap; 3 lbs sh. #CS-76, \$1.00 \$3.00  
#CS-76L, canvas with leather corners, \$4.50  
#CW-189, like CS-76 but 9x10x10, used \$7 \$4.



### TMC SSB CONVERTER



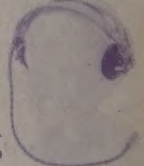
CV-1758 SSB CONVERTER (TMC MSR-9) for 2-32 MHz receivers with 455 KHz IF like the R-390A and SP-600-JX. Operates USB, LSB, AM, CW, FSK and FAX. Input voltage 0.1 to 10 V-rms; impeded 240K ohm. Bandspeed +/-3 KHz; Slow/Fast AVC. Output constant within 8 db with 40 db input change. Output impeded 8 or 600H. Requires 115/230 VAC 60 Hz. 5.3x19x13.5, 30#. Used-repairable, \$165.00  
MANUAL for CV-591 (MSR-4) similar but not identical to CV-1758, partial repro, \$8.50

### MILITARY HEADSETS



1000 OHM HEADSET, similar to military H-140 except with long 15' cord with 1/8" dia mini-jack instead of U-229 plug. Comfortable 4.5x3.5 vinyl-air cushions & adjustable headband; 3 lbs. #HS-GIC/RRE, unused, \$12.95

HS-33 HEADSET popular military 600 ohm set with ANHB-1 or similar elements. Includes brown HB-7 headband with 18" cord & PL-354 plug plus a pair of MC-162 2.5" dia rubber cushions; 2 lbs sh. Unused, \$19.95  
M301 4" CHAMOIS CUSHIONS, \$5/pr  
CD-307 65" CORD for HB-7, \$2.00

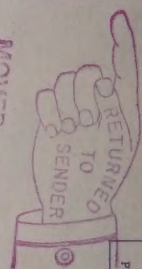


### DC-300 KHZ SCOPE



HEWLETT-PACKARD 130B X-Y SCOPE DC to 300 KHz single trace with large SAGP2 CRT; easy-to-use and low priced! Vertical and horizontal sensitivity 1 mV to 50 V/cm in 17 calibrated steps, 1-2-5 sequence; vernier to 125 V. Sweep 1 usec to 5 sec/cm in 21 steps; vernier to 12.5 sec. Input impedance 2 megohms shunted by 25 pf. Calibrator 300 mv P-P, 300 Hz squarewave. Requires 115/230 VAC 60 Hz; w/partial repro book. 15x9.8x21.3 49 lbs. Used-repairable, \$90. Checked, \$145.

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